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ABSTRACT

This report presents 2001 data on U.S. births according to maternal demographics (age, live-birth order, marital status, race, Hispanic origin, and educational attainment); maternal characteristics (medical risk factors, weight gain, and tobacco and alcohol use); pregnant women's medical care utilization (prenatal care, obstetric procedures, complications of labor and/or delivery, attendant at birth, and delivery method); and infant characteristics (gestation period, birthweight, Apgar score, abnormal conditions, congenital anomalies, and multiple births). Also presented are birth and fertility rates by age, live-birth order, race, Hispanic origin, and marital status. Data are shown on mother's state of residence, month and day of birth, sex ratio, and father's age. Trends in fertility patterns and maternal and infant characteristics are noted. The number of births, birth rate, fertility rate, and total fertility rates all declined 1 percent in 2001. The teenage birth rate reached another historical low. Birth rates for women in their 20s declined slightly. Rates for women age 30-44 years continued to rise. Births to unmarried women changed very little. Smoking by pregnant women was down again. Women were more likely to begin care in the first trimester of pregnancy. The cesarean delivery rate rose for the 5th consecutive year to 24.4 percent. Preterm and low birthweight levels rose in 2001. (SM)



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Division of Vital Statistics U.S. Department of Health and Human Services **Centers for Disease Control and Prevention**

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Births: Final Data for 2001

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Abstract

Objectives—This report presents 2001 data on U.S. births according to a wide variety of characteristics. Data are presented for maternal demographic characteristics including age, live-birth order, race, Hispanic origin, marital status, and educational attainment; maternal characteristics (medical risk factors, weight gain, tobacco, and alcohol use); medical care utilization by pregnant women (prenatal care, obstetric procedures, complications of labor and/or delivery, attendant at birth, and method of delivery); and infant characteristics (period of gestation, birthweight, Apgar score, abnormal conditions, congenital anomalies, and multiple births). Also presented are birth and fertility rates by age, live-birth order, race, Hispanic origin, and marital status. Selected data by mother's State of residence are shown, as well as data on month and day of birth, sex ratio, and age of father. Trends in fertility patterns and maternal and infant characteristics are described and interpreted.

Methods—Descriptive tabulations of data reported on the birth certificates of the 4.026 million births that occurred in 2001 are presented. Denominators for population-based rates are derived from the 1990 U.S. census. As a result, rates are generally larger than would be the case if 2000-based estimates were used. The magnitude of the overestimate will vary by population subgroup; overestimates are likely greatest for those of Hispanic origin.

Results—The number of births, the birth rate, fertility rate, and total fertility rates all declined 1 percent in 2001. The teenage birth rate reached another historic low. Birth rates for women in their twenties declined slightly, whereas rates for women aged 30 to 44 years continued to rise. Births to unmarried women changed very little. Smoking by pregnant women was down again. Women were more likely to begin care in the first trimester of pregnancy (83.4 percent). The cesarean delivery rate rose for the fifth consecutive year to 24.4 percent; the primary cesarean rate was up 5 percent and the rate of vaginal births after a previous cesarean fell 20 percent. Preterm and low birthweight levels both rose for 2001. The twin birth rate continued to climb, and, following 2 years of decline, the rate of triplet/+ births also increased.

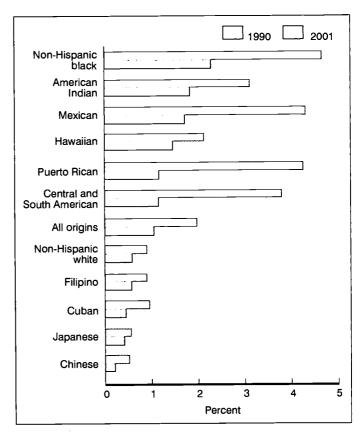


Figure 1. Percent of women with no prenatal care: United States, 1990 and 2001

Keywords: births • birth certificate • maternal and infant health • birth rates • maternal characteristics





This report is dedicated to Ronald F. Chamblee, M.S. 1947–2002



Ronald F. Chamblee was Chief of the Division of Vital Statistics' Data Acquisition and Evaluation Branch for 18 years. In that role he managed the receipt of vital statistics data from the States and worked with State vital statistics offices to improve the quality and timeliness of natality and mortality data. The early release of this report would not have been possible without his efforts. His perception and advice will be greatly missed by his colleagues and friends at NCHS and in the States.



Acknowledgments

This report was prepared under the general direction of Mary Anne Freedman, Director of the Division of Vital Statistics (DVS) and Stephanie J. Ventura, Chief of the Reproductive Statistics Branch. Nicholas F. Pace, Chief of the Systems, Programming, and Statistical Resources Branch (SPSRB), and Steve Steimel, Gail Parr, Bonita Gross, Jaleh Mousavi, Jordan Sacks, Manju Sharma, Annie Liu, Jiaquan Xu, and Thomas D. Dunn provided computer programming support and statistical tables. Paul D. Sutton of the Reproductive Statistics Branch coordinated content review assisted by Yashodhara Patel, Melissa M. Park, and Martha L. Munson. Staff of the Data Acquisition and Evaluation Branch carried out quality evaluation and acceptance procedures for the State data files on which this report is based. The Registration Methods staff of DVS consulted with State vital statistics offices regarding the collection of birth certificate data. This report was edited by Demarius V. Miller, typeset by Jacqueline M. Davis, and graphics were produced by Jamila G. Ogburn of the Publications Branch, Division of Data Services.

Highlights

- There were 4,025,933 births in the U.S. in 2001, 1 percent fewer than the previous year. This marks the first decline in the number of births following 3 consecutive years of increases. Births to non-Hispanic white and black mothers were down, but the number of births to Hispanic women rose 4 percent.
- The birth rate declined from 14.7 to 14.5 per 1,000 total population, matching the record lows reported for 1997 and 1999. The general fertility rate also declined 1 percent to 66.9 births per 1,000 women aged 15–44 years. Fertility rates were down for most racial and Hispanic origin subgroups in 2001. Rates dropped 1–3 percent for American Indian, non-Hispanic white, Asian or Pacific Islander (API), and non-Hispanic black women, and rose 2 percent for Hispanic women.
- The U.S. total fertility rate (TFR) was down slightly for 2001 to 2,114.5. The TFR estimates the number of births that a cohort of 1,000 women would have if they experienced throughout their childbearing years the same age-specific birth rates observed in a given year. TFR declined for most race/ethnic groups for 2001, but increased among Hispanics.
- The birth rate for teenagers reached another historic low in 2001, dropping to 45.8 births per 1,000 women aged 15–19 years. The rate has declined 26 percent since 1991 (62.1). Birth rates have fallen for all teenage subgroups. The rate for the youngest teenagers, 10–14 years, declined to 0.8 per 1,000. Rates for teenagers 15–17 and 18–19 years attained record lows for the Nation; the rate for ages 15–17 was 25.2 per 1,000, 35 percent below the 1991 level and the rate for ages 18–19 was 75.5, down 20 percent since 1991. All population groups have recorded declines since 1991, with the rate for young black teenagers 15–17 years falling most steeply, by 46 percent, to its lowest point ever. Teenage pregnancy rates declined as well during the 1990s, reflecting reductions in teen birth and abortion rates.
- Birth rates for women in their twenties declined in 2001. The rate for women aged 20–24 years dropped 2 percent to 109.9 per 1,000; the rate for 25–29-year-olds was down very slightly to 121.3. The birth rate for women 30–34 years rose 1 percent to 2 and that for women 35–39 years 2 percent to 41.3 per 1,000;

rates for these age groups have risen 20 and 30 percent, respectively, over the last decade. The **birth rate for women 40–44 years** increased to 8.1 per 1,000, matching the previous high in 1970.

- The first birth rate declined in 2001 to 26.6 births per 1,000 women aged 15-44 years.
- The tendency of women to postpone childbearing continued; the median age at first birth rose from 24.6 to 24.8 years, and has risen from 22.1 years since 1970.
- Childbearing by unmarried women changed very little in 2001. The birth rate declined slightly to 45.0 births per 1,000 unmarried women aged 15–44 years. The number of births rose less than 1 percent to 1,349,249, the highest number ever reported, while the percent of births that were to unmarried women increased from 33.2 to 33.5 percent. Births and birth rates for unmarried teenagers continued to decline in 2001.
- Cigarette smoking during pregnancy continued to fall in 2001, to 12.0 percent overall, a drop of 38 percent from 1989. As in previous years, women in age groups 18–24 years were most likely to smoke during pregnancy. Smoking rates declined in 2001 for teenagers and for women in age groups 25–54 years; a small increase was reported for women aged 20–24 years. Maternal smoking is a major risk factor for reduced infant birthweight; 11.9 percent of births to smokers were low birthweight compared with 7.3 percent for nonsmokers.
- Women were more likely to have timely prenatal care in 2001; 83.4 percent began care in the first trimester of pregnancy in 2001 compared with 83.2 percent in 2000. Timely care has risen 10 percent since 1990. The percent of women with no prenatal care declined to 1.1 percent between 2000 and 2001, down from 2.0 percent since 1990. Strong gains in prenatal care utilization between 1990 and 2001 are seen for all racial/ethnic groups, but are particularly marked for non-Hispanic black (no care dropped from 4.7 to 2.3 percent) and Hispanic women (from 4.0 to 1.6 percent). See figure 1.
- The rate of cesarean delivery rose for the fifth consecutive year, to 24.4 percent for 2001. The 2001 rate is the highest since these data became available from birth certificates (1989). The primary cesarean rate rose 5 percent and the rate of vaginal births after previous cesarean delivery (VBAC) fell steeply, by 20 percent. Increases in the total cesarean rate were observed for each State and reporting area.
- The rate of induction of labor increased again for 2001 to 20.5 percent, or more than 1 out of every 5 births. The proportion of births which are induced has more than doubled since 1989.
- The percent of infants born preterm, or at less than 37 completed weeks of gestation, increased to 11.9 for 2001, the highest level in at least two decades. The preterm birth rate has risen 27 percent since 1981. Preterm rates rose for each of the three largest racial/ethnic groups.
- The low birthweight rate (less than 2,500 grams) increased slightly, from 7.6 to 7.7 percent from 2000 to 2001. Influenced in part by the increased rate of multiple births, low birthweight (LBW) has climbed 13 percent since the mid-1980s. The rate of very low

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birthweight (VLBW) (less than1,500 grams) was 1.44 percent for 2001, essentially unchanged from 2000 (1.45 percent), but up from 1.16 percent in 1981.

The twin birth rate rose 3 percent to 30.1 per 1,000 in 2001, marking the first year in which the proportion of all births which are twins exceeded 3 percent. The twinning rate has risen 33 percent since 1990, and 59 percent since 1980. Following a 2-year decline, the rate of triplet and other higher order multiple births (triplet/+) rose 3 percent to 185.6 per 100,000, but remained lower than the 1998 peak. The triplet/+ birth rate has climbed more than 400 percent since 1980.

Introduction

This report presents detailed data on numbers and characteristics of births in 2001, birth and fertility rates, maternal lifestyle and health characteristics, medical services utilization by pregnant women, and infant health characteristics. These data provide important information on fertility patterns among American women by such characteristics as age, live-birth order, race, Hispanic origin, marital status, and educational attainment. Up-to-date information on these fertility patterns is critical to understanding population growth and change in this country and in individual States. Data on maternal characteristics such as weight gain, tobacco and alcohol use, and medical risk factors are useful in accounting for differences in birth outcomes. Information on use of prenatal care, obstetric procedures, complications of labor and/or delivery, attendant at birth and place of delivery, and method of delivery by maternal demographic characteristics can also help to explain differences in birth outcomes. It is very important that data on birth outcomes, especially levels of low birthweight and preterm birth, be continuously monitored, because these variables are important predictors of infant mortality and morbidity.

A report of preliminary birth statistics for 2001 presented data on selected topics based on a substantial sample (96.4 percent) of the 2001 birth file (1). Findings for the selected measures (age, race, Hispanic origin, and marital status of mother, live-birth order, prenatal care, cesarean delivery, and low birthweight) based on the preliminary data are very similar to those presented here based on final data.

In addition to the tabulations included in this report, more detailed analysis is possible by using the Natality public use data tape which is issued for each year. Birth data are also available in CD-ROM format beginning with the 1968 data year, and a selection of tables of detailed data are available on the NCHS homepage at http://www.cdc.gov/nchs/datawh/statab/unpubd/natality/natab99.htm (2,3).

The U.S. and State-level birth and fertility rates in this report are based on population estimates projected from the 1990 census because detailed populations based on the 2000 census were not available when this report was prepared. As a result, rates are generally larger than would be the case if 2000-based estimates were used. The magnitude of the overestimate will vary by population subgroup; overestimates are likely greatest for those of Hispanic origin. See the Methods section and the Technical Notes. Comparison between rates for the current year and for 2000, which also uses population denominators based on the 1990 census, should be affected only marginally when more accurate denominators from the 2000 census are used.

Revised estimates based on the 2000 census will be presented in a forthcoming report planned for early 2003.

Methods

Data shown in this report are based on 100 percent of the birth certificates registered in all States and the District of Columbia. More than 99 percent of births occurring in this country are registered (4). Tables showing data by State also provide separate information for Puerto Rico, Virgin Islands, Guam, American Samoa, and the Commonwealth of the Northern Marianas. However, these areas are not included in totals for the United States.

In this report, tabulations of births beginning with 1980 data are by race of mother; for years prior to 1980, tabulations are by race of child. Details of the differences in tabulation procedure are described in the Technical Notes. Text references to black births and black mothers or white births and white mothers are used interchangeably for ease in writing.

Race and Hispanic origin are reported independently on the birth certificate. In tabulations of birth data by race and Hispanic origin, data for Hispanic persons are not further classified by race because the majority of women of Hispanic origin are reported as white. Most tables in this report show data for these categories: white, total; white non-Hispanic; black, total; black non-Hispanic; and Hispanic. Data for American Indian and Asian or Pacific Islander (API) births are not shown separately by Hispanic origin because the majority of these populations are non-Hispanic. Data are also presented for the following five Hispanic subgroups: Mexican, Puerto Rican, Cuban, Central and South American, and other and unknown Hispanic. Data are shown for five API subgroups: Chinese, Japanese, Hawaiian, Filipino, and "other" API. In addition, 11 States report data on API subgroups included in the "other API" category (Vietnamese, Asian Indian, Korean, Samoan, Guamanian, and remaining API); see Technical Notes.

U.S. and State-level birth and fertility rates in this report are computed on the basis of population denominators provided by the U.S. Census Bureau. All population estimates are projected from the 1990 census because detailed populations from the 2000 census were not available when this report was prepared. As a result, rates are generally larger than would be the case if 2000-based estimates were used. The magnitude of the overestimate will vary by population subgroup; overestimates are likely greatest for those of Hispanic origin. A comparison of summary 2000 census population results with the unpublished estimates for 2000 projected from the 1990 census indicates that the U.S. Hispanic population used for this report is 8 percent lower than the population based on the 2000 census (5-7). The underestimate for Hispanic women 15-44 years of age is 9.5 percent (compared with an underestimate of 2 percent for all women 15-44 years of age). Therefore, the Hispanic birth and fertility rates presented here are overstated because the population base is too small. Similar but less pronounced effects for other population groups are also likely; see Technical Notes. Revised estimates based on the 2000 census will be presented in a forthcoming report planned for early 2003. Birth rates for Hispanic subgroups for 2001, which are not included in this report, also will be included in the forthcoming publication. Rates by State shown in this report also may differ from rates computed on the basis of other population estimates.

Information on the measurement of marital status, gestational age, and birthweight; the computation of derived statistics and rates;

population denominators; random variation and relative standard error; and the definitions of terms are presented in the Technical Notes.

Information on births by age, race, or marital status of mother is imputed if it is not reported on the birth certificate. These items were not reported for less than 1 percent of U.S. births in 2001. (See Technical Notes for additional information.) All other maternal and infant characteristics (except items on which length of gestation is calculated) are not imputed. Births for which a particular characteristic is unknown are subtracted from the figures for total births that are used as denominators before percents, percent distributions, and medians are computed. Thus, for example, the proportion of women receiving care in the first trimester of pregnancy is computed on the basis of births for which month prenatal care began was reported. Levels of nonreporting vary substantially by specific item and by State. Table I in the Technical Notes provides information on the percent of records with missing information for each item by State for 2001. Readers should note that the levels of incomplete or inaccurate reporting for some of the items are quite high in some States. Data for 2001 for the District of Columbia and Washington State are of particular concern.

Demographic Characteristics

Births and birth rates

Number of births

There were 4,025,933 births in the United States in 2001, 1 percent fewer births than in 2000 (4,058,814). This marks the first decline after 3 consecutive years of increase. The number of births fell 7 percent between 1990, the most recent high point in U.S. births, and 1997, the most recent low, but increased 3 percent between 1998 and 2000. Despite the decline in 2001, the number of births was still 4 percent greater than the number in 1997. (See tables 1–12 for national and State birth data by age, live-birth order, race, and Hispanic origin.)

Declines in the number of births were observed for most, but not all, race and ethnic groups in 2001 (tables 1 and 6). Births to non-Hispanic white and non-Hispanic black women fell 2 percent compared with a very slight rise for American Indian births. Overall Asian or Pacific Islander births declined very slightly; among the Asian or Pacific Islander (API) subgroups, changes ranged from an increase of 2 percent for "other" API, to a decrease of 8 percent for Chinese births. Births to Hispanic mothers rose 4 percent overall; however, increases were limited to Cuban, Mexican, and Central and South American mothers; births to Puerto Rican and "other" Hispanic mothers declined.

Crude birth rate

The crude birth rate declined to 14.5 live births per 1,000 total population in 2001 from 14.7 in 2000, returning to the record lows reported for 1997 and 1999. The birth rate has been comparatively low and stable since 1996. Between 1975 and 1990, the crude birth rate rose 14 percent (from 14.6 to 16.7), but then fell 13 percent between 1990 and 1997 (14.5).

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Fertility rate

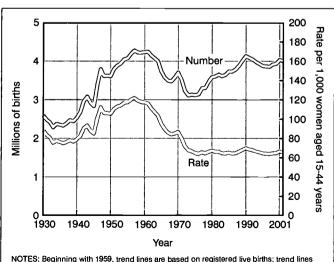
The general fertility rate, which relates births to the number of women in the childbearing ages, was 66.9 live births per 1,000 women aged 15–44 years in 2001, 1 percent lower than the rate in 2000 (67.5), and 6 percent lower than the most recent high (70.9 in 1990). Despite the drop in 2001, the rate was still 3 percent above that in 1997 (65.0), the most recent low (table 1 and figure 2).

Declines in the **fertility rate** were reported for most **race and Hispanic origin groups** between 2000 and 2001. Rates dropped 1 percent for American Indian women (70.8 per 1,000 for 2001), 2 percent for non-Hispanic white (57.6) and Asian or Pacific Islander (API) women (69.4), and 3 percent for non-Hispanic black women (71.6). The fertility rate for Hispanics increased 2 percent in 2001 (**tables 1 and 6**). (Birth and fertility rates for the API and Hispanic origin subgroups cannot be computed because the necessary populations are not available; see Technical Notes.)

Age of mother

Teenagers—Birth rates for teenagers declined again in 2001, reaching historic lows for the Nation. The rate for the youngest teenagers dropped to 0.8 births per 1,000 females aged 10–14 years, down from 0.9 in 1999 and 2000. The rate has declined fairly steadily since 1994 (1.4 per 1,000). The number of babies born to teenagers under age 15 fell to 7,781 in 2001 (table 2), the fewest recorded since 1965 (7,768). Recent declines in births to the youngest teenagers are due entirely to the drop in the birth rate; the number of female teenagers has increased steadily through the 1990s and 2000–2001 (7,8).

The **birth rate for teenagers 15–19 years** dropped 6 percent between 2000 and 2001, to 45.8 births per 1,000 teenagers. During the decade 1991–2001, the rate has fallen 26 percent, more than reversing the steep increases of the late 1980s (**tables A and 4**). In 2001, the number of babies born to women aged 15–19 years dropped 5 percent



NOTES: Beginning with 1959, trend lines are based on registered live births; trend lines for 1930-59 are based on live births adjusted for underregistration. Denominators for population-based rates for 1991-2001 are derived from the 1990 U.S. census. As a result, rates for more current years are generally larger than would be the case if 2000-based estimates were used.

Figure 2. Live births and fertility rates: United States, 1930–2001

Table A. Birth rates for teenagers 15–19 years by age, race, and Hispanic origin of mother: United States, 1991, 2000 and 2001, and percent change, 1991–2001 and 2000–2001

[Rates are live births per 1,000 women in specified group]

		Non-H	ispanic	Amorios -	Asian or	
Year and age	Total1	White	Black	American Indian ²	Pacific Islander ²	Hispanic ³
15-19 years						
2001	45.8	30.0	75.6	66.0	20.4	92.5
2000	48.5	32.5	81.9	67.8	21.6	94.4
19914	62.1	43.4	118.9	85.0	27.4	106.7
Percent change,				_		
1991–2001	-26	-31	-36	-22	-26	-13
Percent change, 2000–2001	-6	-8	-8	-3	6	-2
2000–2001	-0	-0	-0	-ა	-0	-2
15-17 years						
2001	25.2	14.1	47.2	36.7	10.2	57.0
2000	27.4	15.8	52.0	39.6	11.5	60.0
1991⁴	38.7	23.6	86.7	52.7	16.1	70.6
Percent change,						
1991–2001	-35	-4 0	-46	-30	-37	-19
Percent change,				_		_
2000–2001	-8	-11	-9	-7	-11	- 5
18-19 years						
2001	75.5	52.9	116.8	111.9	35.6	143.5
2000	79.2	56.8	125.1	113.1	37.0	143.6
1991⁴	94.4	70.5	163.1	134.3	43.1	158.5
Percent change,						
1991–2001	-20	-25	-28	-17	-17	-9
Percent change,						
2000–2001	-5	-7	-7	-1	-4	0

¹Includes races other than white and black and origin not stated.

NOTES: Denominators for population-based rates are derived from the 1990 U.S. census. As a result, rates are generally larger than would be the case if 2000-based estimates were used. The magnitude of the overestimate will vary by population subgroup; overestimates are likely greatest for those of Hispanic origin.

to 445,944, falling in spite of continued increases in the number of female teenagers (7,8). Declines in teenage childbearing since the mid-1990s have been concentrated in the rate for first births while there has been little change in the proportion of teenage mothers who are going on to have subsequent births (9).

Teenage birth rates dropped for both younger and older teenagers. The rate for ages 15–17 years fell 8 percent to 25.2 per 1,000, whereas the rate for older teenagers dropped 5 percent to 75.5, both record lows. During the 1991–2001 period, these rates declined 35 percent for younger teenagers and 20 percent for older teenagers. The number of babies born to 15–17-year-olds dropped to 145,324, the lowest number in nearly half a century (145,122 in 1954). Births to older teenagers also declined steeply, to 300,620, fewer than in any year since 1987 (289,721).

Teenage birth rates differ considerably by race and Hispanic origin (tables 3, 4, 8, and 9). These disparities will be reduced but not eliminated after taking into account the considerable discontinuities in the population data on which these rates are based that occurred between the 1990 and 2000 censuses (described in the Methods n above). In 2001 rates are currently available for fewer

population subgroups compared with previous years: non-Hispanic white, non-Hispanic black, American Indian, Asian or Pacific Islander (API), and total Hispanic. Rates for Hispanic subgroups are expected to be published within a few months when the necessary population data become available. In 2001, as in previous years, Hispanic teenagers had the highest birth rate, 92.5 per 1,000, followed by non-Hispanic black (75.6), American Indian (66.0), non-Hispanic white (30.0), and API teenagers (20.4). The rates for all subgroups fell between 2000 and 2001, especially for non-Hispanic white and black teenagers, down 8 percent each. The birth rate for non-Hispanic black teenagers dropped 36 percent between 1991 and 2001.

Teenage pregnancy rates (based on the sum of live births, induced abortions, and fetal losses) have declined in recent years as well. The most recent year for which teenage *pregnancy* rates are available is 1997. The overall rate was 94.3 per 1,000 teenagers 15–19 years, down 19 percent from its 1991 peak, 116.5 (10,11). Recently published abortion data for 1998 and 2000 show a continued decline in abortions among teenagers (12,13). Along with the drop in the teenage birth rate, the decline in abortions suggests that the teenage pregnancy rate has fallen as well.

Several factors are believed to account for the downturn in teenage pregnancy and birth rates. The factors, discussed in recent reports, include continued reductions through the late 1990s and in 2000–2001 in the proportions of teenagers who are sexually experienced, coming on the heels of steady increases over the previous two decades (14–16). Since the early 1990s, a wide array of public and private initiatives have stressed the importance of preventing teenage pregnancy by abstinence and responsible behavior (17). Contraceptive use among teenagers has also increased, especially condoms, and some high-risk teenagers are using implants and injectables, which are effective hormonal contraceptives (15,18).

Women aged 20 years and over: Women in their twenties—The birth rate for women aged 20–24 years dropped 2 percent, from 112.3 in 2000 to 109.9 per 1,000 in 2001. The rate for this group fell 6 percent from 1990 (116.5) to 1995 (109.8), but rose 2 percent between 1997 (110.4) and 2000 (112.3) (figure 3, tables 3, 4, 8, and 9). The rate for women aged 25–29 years also declined in 2001 but only very slightly, from 121.4 in 2000 to 121.3 per 1,000 in 2001. The rate for this age group declined 7 percent (from 120.2 to 112.2) between 1990 and 1995 but increased 8 percent between 1995 and 2000. Compared with the rates for older women, birth rates for women in their twenties, the principal childbearing ages, have been relatively stable over the past 20 years, changing on average by less than 1 percent annually.

Women in their thirties—The rate for women aged 30–34 years increased 1 percent to 95.2 births per 1,000 in 2001, from 94.1 in 2000. The birth rate for women in this age group has increased steadily since 1991, by 20 percent (tables 4 and 9) (3,19). The rate of increase has slowed during the last decade to about 2 percent per year compared with the 3 percent annual increase for 1975–90. The number of births to women aged 30–34 years in 2001 (942,697) increased 1 percent from 2000, whereas the population of women in that age group was essentially unchanged (7).

The **birth rate for women aged 35–39 years** also rose in 2001 to 41.3, from 40.4 in 2000, a 2-percent increase. The rate for this age group has more than doubled since 1978 and has risen 30 percent since 1990. The pace of increase for this age group has slowed slightly

²Includes persons of Hispanic and non-Hispanic origin.

³Persons of Hispanic origin may be of any race.

^{*}See reference 133 for information on reporting areas in 1991.

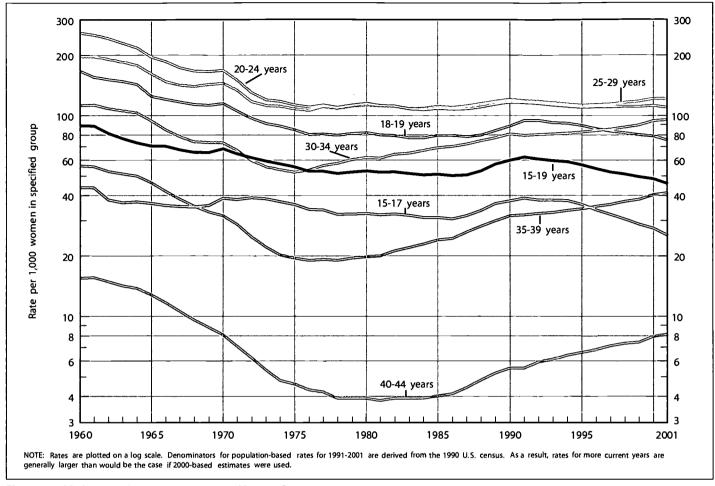


Figure 3. Birth rates by age of mother: United States, 1960-2001

over the last decade, to 2 percent annually, compared with 4 percent per year for 1978–90. The number of births to women aged 35–39 years in 2001 was 451,723, which represents 11 percent of all births. The number of births to this age group has risen 42 percent since 1990 (317,583), considerably more than the increase in the population of this age group (7,20,21). The proportion of births to women 35–39 years of age also generally has been increasing since 1977 (from 4 percent).

Women in their forties—The birth rate for women aged 40–44 years increased to 8.1 per 1,000 in 2001 from 7.9 births in 2000, the highest level reported since 1970. This rate has increased 47 percent since 1990 (5.5), and has more than doubled since 1981 (3.8), the most recent low. Women 40–44 years of age accounted for 2 percent of all births in 2001, compared with 1 percent of births in 1990, and less than 1 percent in 1981.

The **birth rate for women aged 45–49 years** was 0.5 births per 1,000 in 2001, unchanged from 2000, but has more than doubled since 1990. Between 2000 and 2001, the number of births to women in this age group rose 11 percent from 4,349 to 4,844, the highest number in three decades, and has tripled since 1990 (1,638). The increase over the decades reflects not only an increase in the number of women in this age group (who were born between 1952 and 1956), but also a greater likelihood to give birth.

Births to women aged 50 years and over—Data on births to women aged 50–54 years have recently become available again. From 1996, age of mother was edited for ages under 10 years and

50 years or over (see Technical Notes). In 2001, 239 births occurred to women aged 50–54 years, a decline from the 255 births reported for 2000 (tables 2 and 7 for 2001 data), but considerably more than for 1997 to 1999 (144 and 174, respectively). Nevertheless, the number of births to women aged 50–54 years remains too small to compute an age-specific birth rate. In computing birth rates by age of mother, births to women aged 50–54 have been included with births to women aged 45–49; the denominator for the rate is women aged 45–49 years (see Technical Notes).

The increase in birth rates for women 35 years of age and over during the last 20 years (table 4) has been linked to several factors, including the availability and use of fertility-enhancing therapies (22). Among childless women aged 35–44 years reporting impaired fecundity, according to the National Survey of Family Growth, the proportion seeking fertility treatment rose considerably from 1982 to 1995 (14,23,24). In 2001, 1 out of 20 births to women aged 40–44 years, and 1 out of 5 births to women 45–54 years of age was a multiple delivery, an outcome associated with infertility therapy (see section on Multiple births).

Live-birth order

The first birth rate for women aged 15-44 years was 26.6 in 2001, 2 percent lower than the rate in 2000 (27.1) (table 5). The

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second order birth rate also decreased slightly between 2000 and 2001, whereas rates for third, fifth, and all higher order births were unchanged. The rate for fourth order births increased by 2 percent.

The decline in the first birth rate for the current year was the result of declines in first birth rates to women under 30 years of age (see table 3 for 2001 data). Declines in first births were particularly marked for mothers under 20 years of age. First birth rates for mothers 15–17 and 18–19 years of age declined by 8 and 4 percent, respectively, whereas, first birth rates for women aged 20–24 and 25–29 years declined 2 percent. Women under 30 years of age accounted for 75 percent of all first births in 2001, slightly lower than the proportion in 2000 (76 percent) and substantially lower than for 1975 (95 percent) (19). The first birth rates for women aged 30–34 years and 35–39 years were up 1 and 2 percent, respectively, in 2001; first birth rates for women 40 years of age and over remained constant.

Another useful measure for interpreting childbearing patterns is the **median age at first birth**. The median age is the middle value of the distribution of age at first birth. Arranged by age of mother, from the lowest to highest, half of the births would occur above and below the median age. The median age at first birth was 24.8 years in 2001 up from 24.6 years in 2000. The increase in 2001 while modest was consistent with that of recent years. The tendency of women to postpone childbearing, observed since the early 1970s, appears to continue (3). The median age at first birth has risen nearly 3 years since 1970, from 22.1 (data not shown) (3).

The **mean age at first birth** is another useful measure for describing age patterns in fertility. The mean is the sum of values for all observations divided by the total number of observations. The mean age of first-time mothers was 25.0 years in 2001, compared with 24.9 years in 2000. Since 1970, the mean age at first birth has increased 3.6 years. Increases in the mean age at birth were observed for most birth orders and for most racial and Hispanic origin groups (25).

Total fertility rate

The total fertility rate (TFR) in 2001 was 2,114.5 per 1,000 women, or 2.1 births per woman, just slightly lower than the rate in 2000 (2,130.0) (tables 4 and 9). The decrease in the TFR in 2001 is the result of declines in the age-specific birth rates for women under 30 years of age (see section above on Age of mother). TFRs for most race and ethnic groups fell 3 percent or less between 2000 and 2001. The TFR for Hispanic women, however, increased 2 percent.

The TFR summarizes the potential impact of current fertility patterns on completed family size. The TFR estimates the number of births that a hypothetical cohort of 1,000 women would have if they experienced throughout their childbearing years the same age-specific birth rates observed in a given year. The rate can be expressed as the average number of children that would be born per woman. Because it is computed from age-specific birth rates, the TFR is age-adjusted and can be readily compared for populations across time or among geographic areas.

As in the past, TFRs among the race and Hispanic origin groups differed considerably. The 2001 TFR was 1,853.0 for non-Hispanic white, 2,035.5 for Asian or Pacific Islander (API), and 2,074.5 for American Indian women. The TFRs for non-Hispanic black and Hispanic women were 2,190.5 and 3,165.0, respectively (tables 4, 9, 13, and 14). State-specific total fertility rates for 2001 are discussed in the ection.

The overall U.S. TFR for 2001 remained above the "replacement" rate (2,100) for the second year in a row. The "replacement" rate is considered the value at which a given generation can exactly replace itself

Births and birth rates by State

Between 2000 and 2001, the **number of births** increased in 17 States, the Virgin Islands, and Northern Marianas, and decreased in 33 States, the District of Columbia, Puerto Rico, Guam, and American Samoa (**tables 10–12**). The change in the number of births ranged from a 4-percent decline in Alabama and Mississippi to a 2-percent gain in Colorado. The only statistically significant increase was for Colorado; however, the number of births fell significantly in 16 States: Alabama, Arkansas, California, Indiana, Kansas, Kentucky, Louisiana, Maryland, Michigan, Mississippi, New York, North Carolina, Ohio, Pennsylvania, Tennessee, and Washington.

Crude birth rates by State for the current year ranged from 11 births per 1,000 total population (Maine, Vermont, and West Virginia) to 22 per 1,000 (Utah) (table 10). Birth rates declined significantly in 24 States, Puerto Rico, and Guam. Birth rates increased, but not significantly, in only 6 States and the Virgin Islands. Typical decreases in the birth rate were around 2 percent with some significant declines of more than 3 percent (Alabama, Delaware, Kentucky, Louisiana, and Mississippi).

Fertility rates per 1,000 women aged 15–44 years in 2001 ranged from a low of 48 (Vermont) to a high of 95 (Utah) (table 10). The fertility rate increased significantly only in Colorado (2 percent). Rates declined significantly in 13 States and Puerto Rico. Declines of around 1 percent were typical.

State-specific **TFRs** for 2001, which provide a summary measure of lifetime fertility, are shown in **table 10**. The total fertility rates by State for 2001 varied substantially from a high of 2,755.5 (or 2.8 births per woman) for Utah to a low of 1,547.0 (1.5 births per woman) for Vermont. Differences in the total fertility rates and changes between 2000 and 2001 by State are quite similar to those for the general fertility rate.

Birth rates for teenagers by State

Birth rates for teenagers also vary considerably by State (tables B and 10). In 2001, birth rates for teenagers 15–19 years ranged by State from 21.0 to 66.7 per 1,000. Rates were 25.0 per 1,000 or lower in Massachusetts, New Hampshire, and Vermont. Rates were 60.0 or higher in Arizona, Arkansas, the District of Columbia, Georgia, Mississippi, New Mexico, and Texas. Teenage birth rates in 2001 were lower than in 2000 in every State. The sustained declines in birth rates for U.S. teenagers since 1991 are found in all States; rates in 2001 were significantly lower than in 1991, with overall declines by State ranging from 13 to 42 percent (table B). A review of current trends and variations in teenage birth rates by State, by age, race, and Hispanic origin, is presented in a recent report (9).

Sex ratio

The relative number of births by sex is important because it contributes to future population change, and by extension, social and economic processes. In 2001, there were 2,057,922 male and 1,968,011 female live births, or 1,046 males for every 1,000 female

Table B. Birth rates for teenagers 15–19 years by State, 1991 and 2001, and percent change, 1991–2001: United States and each State and territory

(Birth rates per 1,000 estimated female population aged 15-19 years in each area)

State	1991	2001	Percent change, 1991–2001	State	1991	2001	Percent change, 1991–2001
United States ¹	62.1	45.8	-26.2	Nebraska	42.4	36.0	-15.1
				Nevada	75.3	56.4	-25.1
Alabama	73.9	57.8	-21.8	New Hampshire	33.3	21.0	-36.9
Alaska	65.4	37.7	-42.4	New Jersey	41.6	29.9	-28.1
Arizona	80.7	65.3	-19.1	New Mexico	79.8	64.5	-19.2
Arkansas	79.8	64.2	-19.5	New York	46.0	34.1	-25.9
California	74.7	45.2	-39.5	North Carolina	70.5	55.2	-21.7
Colorado	58.2	45.7	-21.5	North Dakota	35.6	27.2	-23.6
Connecticut	40.4	29.4	-27.2	Ohio	60.5	42.2	-30.2
Delaware	61.1	48.2	-21.1	Oklahoma	72.1	58.0	-19.6
District of Columbia	114.4	74.9	-34.5	Oregon	54.9	40.9	-25.5
Florida	68.8	49.3	-28.3	Pennsylvania	46.9	33.6	 28.4
Georgia	76.3	60.9	-20.2	Rhode Island	45.4	37.4	-17.6
Hawaii	58.7	42.5	-27.6	South Carolina	72.9	57.4	-21.3
ldaho	53.9	40.6	-24.7	South Dakota	47.5	37.1	-21.9
Illinois	64.8	47.3	-27.0	Tennessee	75.2	58.4	-22.3
Indiana	60.5	47.2	-22.0	Texas	78.9	68.5	-13.2
lowa	42.6	33.0	-22.5	Utah	48.2	38.2	-20.7
Kansas	55.4	43.0	-22.4	Vermont	39.2	23.9	-39.0
Kentucky	68.9	51.4	-25.4	Virginia	53.5	39.4	-26.4
Louisiana	76.1	57.8	-24.0	Washington	53.7	34.9	-35.0
Maine	43.5	27.1	-37.7	West Virginia	57.8	45.5	-21.3
Maryland	54.3	38.2	-29.7	Wisconsin	43.7	33.4	-23.6
Massachusetts	37.8	25.0	-33.9	Wyoming	54.2	38.6	-28.8
Michigan	59.0	37.2	-36.9	, 3			
Minnesota	37.3	27.9	-25.2	Puerto Rico	72.4	68.0	-6.1
Mississippi	85.6	66.7	-22.1	Virgin Islands	77.9	51.5	-33.9
Missouri	64.5	46.1	-28.5	Guam.	95.7	70.5	-26.3
Montana	46.7	35.6	-23.8	American Samoa		38.9	20.0
	,5.1	55.0	25.0	Northern Marianas		56.8	

^{- - -} Data not available.

NOTES: Denominators for population-based rates are derived from the 1990 U.S. census. As a result, rates are generally larger than would be the case if 2000-based estimates were used. The magnitude of the overestimate will vary by population subgroup; overestimates are likely greatest for those of Hispanic origin.

births (tables 13 and 14). The 2001 sex ratio is comparable to past years (1,048 in 2000), and has changed very little over the past half century.

Similar to previous years, Asian or Pacific Islander (API) mothers, as a group, had the highest sex ratio (1,067). The sex ratios for individual API subgroups varied considerably, however, from a high of 1,092 for Chinese mothers to a comparatively low 1,000 (equal numbers of male and female births) for Hawaiian mothers. As in previous years, the sex ratio for all Hispanic mothers (1,038) was about midway between non-Hispanic white (1,051) and non-Hispanic black (1,032). Persistent differences in the sex ratio between groups may be due to environmental and/or maternal conditions (26–28).

Month of birth

The monthly average number of births in 2001 was 335,494. The actual number of births per month ranged from 303,534 (February) to 361,802 (August) (table 15). Historically, the number of births tends to peak during the summer months and is at its lowest during the winter. The observed birth rate, which takes into account the different number of days in the month, peaked in August and was at its lowest in December.

When compared with 2000, observed monthly birth rates in 2001 wer for all but 2 months (January and April). The observed

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monthly fertility rates were higher for 5 and lower for 7 months in 2001. When seasonal variation is filtered from the monthly birth and fertility rates, an estimate of the underlying trends is obtained. In 2001 adjusted birth rates declined for 9 months and adjusted fertility rates fell for 8 months ending 3 consecutive years where increases in the monthly fertility rate outnumbered decreases.

Day of the week of birth

The average number of births on any given day in 2001 was 11,030 (table 16). However, the number of births by day of the week varies considerably. In 2001 the average number of daily births ranged from a low of 7,637 on Sunday to a high of 12,496 on Tuesday.

Variation in the daily pattern of births can be measured with an index of occurrence. The index is defined as the ratio of the average number of births per day of the week to the average number of births per day of the year with the base set at 100. In 2001 the index for Tuesday was 113.3, indicating that there were 13.3 percent more births on Tuesday than on the average day. As in previous years, infants were less likely to be born on weekends. The index was lowest for Sunday (69.2), followed by Saturday (79.1). The overall index of occurrence for

¹Excludes data for the territories

Saturday and Sunday has declined 19 and 11 percent, respectively since 1982, indicative of a growing weekend birth "deficit" over this period (data not shown).

A deficit in weekend births is apparent for both vaginal and cesarean deliveries, but is notably larger for cesarean deliveries, particularly repeat cesareans. The Sunday index for vaginal births in 2001 was 75.4, compared with 61.0 for primary cesareans, and 34.1 for repeat cesareans. The weekend birth deficit for all cesarean births has increased noticeably since 1989, when these data first became available. For example, the Sunday index for all cesarean births was 50.7 in 2001 compared with 60.7 in 1989 (data not shown).

Births to unmarried women

Births to unmarried women changed very little for 2001. The birth rate for unmarried women declined slightly in 2001, to 45.0 births per 1,000 unmarried women aged 15–44 years (tables C, 17, and 18). The rate was 4 percent lower than the historic peak reached in 1994, 46.9. The number of births to unmarried women rose less than 1 percent to 1,349,249, the highest number ever, entirely the result of the 1-percent increase in the number of unmarried women (29,30). The number of nonmarital births increased 16 percent since 1990, a far slower pace than during the 1980s, when the total number rose 75 percent and annual increases amounted to about 6 percent. The percent of all births that were to unmarried women rose to 33.5 percent in 2001, compared with 33.2 percent in 2000 and 28.0 percent in 1990.

In 2001 all States except for Michigan and New York reported the mother's marital status through a direct question on the birth certificate or in the electronic birth registration process. Michigan and New York

Table C. Number, rate, and percent of births to unmarried women, and birth rate for married women: United States, 1980 and 1985–2001

	Births to	unmarried	women	Diah untu fau
Year	Number	Rate ¹	Percent ²	Birth rate for married women ³
 2001	1,349,249	45.0	33.5	88.7
2000	1,347,043	45.2	33.2	89.3
1999	1,308,560	44.4	33.0	86.5
1998	1,293,567	44.3	32.8	85.7
1997	1,257,444	44.0	32.4	84.3
1996	1,260,306	44.8	32.4	83.7
1995	1,253,976	45.1	32.2	83.7
1994	1,289,592	46.9	32.6	83.8
1993	1,240,172	45.3	31.0	86.8
1992	1,224,876	45.2	30.1	89.0
1991	1,213,769	45.2	29.5	89.9
1990	1,165,384	43.8	28.0	93.2
1989	1,094,169	41.6	27.1	91.9
1988	1,005,299	38.5	25.7	90.8
1987	933,013	36.0	24.5	90.0
1986	878,477	34.2	23.4	90.7
1985	828,174	32.8	22.0	93.3
1980	665,747	29.4	18.4	97.0

¹Births to unmarried women per 1,000 unmarried women aged 15-44 years.

NOTES: Denominators for population-based rates for 1991–2001 are derived from the 1990 U.S. census. As a result, rates for more current years are generally larger than would be the 3000-based estimates were used. The magnitude of the overestimate will vary by 3n subgroup; overestimates are likely greatest for those of Hispanic origin.

infer the mother's marital status on the basis of other information on the birth certificate: see Technical Notes for details.

Birth rates for unmarried women vary considerably by race and Hispanic origin. The rate for Hispanic women was highest in 2001, 98.0 per 1,000, followed by the rate for black women, 70.1, and the rate for non-Hispanic white women, 27.7 (tables 17 and 18). The birth rate for non-Hispanic white women has changed very little since 1994 (28.5). The birth rate for black women in 2001 was a record low for the Nation, 27 percent below its historic peak three decades earlier (96.1 in 1971). (Data for black women are available since 1969 (3, 31).) The rate for Hispanic women had declined during 1994–98, and has since risen about 9 percent. The rate for unmarried Asian or Pacific Islander women is the lowest, 23.2 per 1,000 (data not shown).

Birth rates for unmarried women are consistently highest for women aged 20–24 years (73.8 per 1,000), followed by women aged 25–29 (63.7) and 18–19 years (60.1). Rates are successively lower for women in their early thirties, young teenagers, and women in age groups 35 and older (tables 17 and 18). Rates for black and Hispanic teenage women are fairly similar, but at ages 20 years and over, rates are considerably higher for Hispanic women.

Between 2000 and 2001, birth rates for unmarried women declined for women under age 25 years and increased for older women (figure 4). Since 1994, rates for unmarried teenagers have fallen 30 percent for ages 15–17 years and 14 percent for ages 18–19 years. The rate for black teenagers has fallen steadily since 1991, dropping 34 percent for ages 15–19, and by 43 percent for ages 15–17 years. From its 1994 peak to 2001, the rate for non-Hispanic white teenagers fell 19 percent. The 2001 rate for Hispanic teenagers was 13 percent lower than in 1994.

Birth rates for unmarried women in age groups 25-29 years and older all increased in 2001, by 2 to 4 percent for women aged 25-29

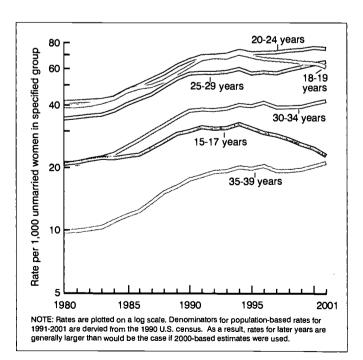


Figure 4. Birth rates for unmarried women, by age of mother: United States, 1980–2001

²Percent of all births to unmarried women.

³Births to married women per 1,000 married women aged 15-44 years.

through 35–39 years. The rate for women aged 40–44 years also rose in 2001. Most of these increases were found for Hispanic and non-Hispanic white women.

The proportions of all births that occurred to unmarried women changed little for population groups in 2001. The proportions were 22.5 percent for non-Hispanic white women, 68.6 percent for non-Hispanic black women, and 42.5 percent for Hispanic women (see tables 13, 14, 17, and 19 for 2001 data).

The modest increase in 2001 in the proportion of births to unmarried women reflects slight changes in births and birth rates for unmarried and married women. Births to unmarried women rose very slightly while the birth rate declined less than 1 percent; concurrently, births to married women and their birth rate each declined about 1 percent (table C). Overall, the percent of births to unmarried women has changed little since 1994, ranging from 32.2 to 33.5 percent.

The numbers and proportions of births to unmarried women by State by race and Hispanic origin for 2001 are shown in table 19. Numbers rose in 32 States and in the Virgin Islands and declined in 18 States and the District of Columbia, Puerto Rico, Guam, and American Samoa. The proportions increased in 40 States, Puerto Rico, the Virgin Islands, and Guam; declined in 6 States, the District of Columbia, and American Samoa; and were unchanged in 4 States.

Age of father

The birth rate per 1,000 men aged 15–54 years was 50.6 in 2001 (table 20), a decrease of 2 percent from 2000 (51.6). During the first half of the 1990s, the overall birth rate for men declined 11 percent, but since 1996, this rate has fluctuated little, hovering around 51. The relative stability in the overall birth rate belies variation in the age specific birth rates. In general, birth rates declined for men under 30 years of age, increased for men between 30 and 44 years of age, and were little changed for men over 44 years of age. One of the more striking observations is the continued decline in the birth rate for teenage males, which fell another 7 percent between 2000 and 2001, to 18.7, continuing a 7-year downward trend from a peak of 25.0 in 1994. Birth rates for teenagers have been falling since the early 1990s (see section on Age of mother).

Information on age of father is often missing on birth certificates of children born to women less than 25 years of age and unmarried women as well (31). In 2001 the age of father was not reported for 13 percent of all births, 24 percent of births to women less than 25 years of age, and 38 percent of all nonmarital births. In computing birth rates by age of father, births where age of father is not stated were distributed in the same proportion as births where age of father is stated within each 5-year age interval of mother. This procedure avoids the distortion in rates that would result if the relationship between age of mother and age of father were disregarded. The procedures for computing birth rates by age of father are described in more detail in the Technical Notes.

Educational attainment

Maternal education has long been considered an important factor in fertility and health. The educational attainment of women has been shown to have a profound effect on the number of births and the risk of adverse birth outcome. Women with higher educational nt are more likely to desire and give birth to fewer children

and to seek timely prenatal care, and are less likely to engage in behaviors detrimental to health and pregnancy.

In 2001, 78 percent of women who gave birth had 12 or more years of schooling (a high school education or equivalent), and 25 percent had 16 or more years of schooling (a college education or equivalent) (table 21). The educational attainment of women at birth (based on the completed years of education at birth) has increased substantially over the last few decades. The percentage of mothers with 12 or more years of schooling has risen 3 percent since 1990, and 13 percent since 1970; the percentage of mothers with 16 or more years of schooling has increased 44 percent since 1990 (17.5 percent), and nearly tripled since 1970 (8.6 percent). This trend reflects in part increases in educational attainment of all women during this time period (32,33).

The median educational attainment for all mothers in 2001 was 12.9 years, unchanged from the preceding year (data not shown), but up from 12.7 years in 1990, and 12.4 years of education in 1970. The increase in median educational attainment is more pronounced by age at first birth. Between 1990 and 2001, the median education of women aged 25–29, and 30–34 years rose by 1 year, from 14.2 to 15.2 years, and 15.3 to 16.3 years of education, respectively (data not shown). This pattern is consistent with the delayed childbearing observed for women with higher levels of educational attainment (34).

Differences in educational attainment are also evident by race and ethnicity. Among the Asian or Pacific Islander (API) subgroups, all were well above the national percent (78 percent) for at least a high school education in 2001, ranging from 85 percent for Hawaiian, to 98 percent for Japanese women (table 13). The percent of non-Hispanic white mothers having completed high school was 88, compared with 75 percent of non-Hispanic black; 69 percent of American Indian mothers were at this educational level (tables 13, 14, and 21). Overall 51 percent of Hispanic mothers had at least 12 years of schooling (table 14). Levels among the Hispanic subgroups ranged from 45 percent of Mexican mothers to 88 percent of Cuban mothers.

Differences by race and ethnicity were even more pronounced at higher educational levels. Among the API subgroups, 13 percent of Hawaiian mothers reported 16 or more years of education compared to 56 percent of Chinese mothers. The variation among the Hispanic subgroups was nearly as substantial; 31 percent of Cuban mothers reported at least a college education in 2001 compared with 5 percent of Mexican mothers (data not shown). The level of higher education for non-Hispanic black and American Indian women was 12 and 8 percent, respectively, whereas 33 percent of non-Hispanic white women giving birth in 2001 had at least 16 years of education.

Maternal Lifestyle and Health Characteristics

Weight gain

Maternal weight gain during pregnancy influences pregnancy outcome (35). Inadequate maternal weight gain has been associated with an increased risk of intrauterine growth retardation, shortened period of gestation, low birthweight, and perinatal mortality. High weight gain during pregnancy has been linked with an elevated risk of a large-for-gestational-age (LGA) infant, cesarean delivery, and long-term maternal weight retention (36–38). In 1990 the Institute of Medicine (IOM) published guidelines for weight gain during pregnancy for singleton gestations (39). Based on the mother's body

mass index (BMI), the guidelines recommend that women who are underweight gain 28-40 pounds, those who are of normal weight gain 25-35 pounds, and those who are overweight gain 15-25 pounds. For extremely obese women, the IOM recommends a minimum weight gain of 15 pounds. However, it recommended that weight gain goals be tailored to individual needs (39). Studies suggest that weight gain within these guidelines is associated with the best outcomes; these studies also suggest, however, that a majority of maternal weight gain is outside of the recommended ranges (40,41).

BMI is calculated from a woman's prepregnancy weight and height, neither of which are available from the birth certificate, which only captures information on weight gained during pregnancy. Therefore, it is not possible from these data to determine whether the weight gain was within the recommendations for the mother's BMI. However, these data do allow us to estimate weight gain outside of the recommended ranges for women of any BMI.

Between 1989 (when data became available) and 2001, the percent of mothers who gained less than 16 pounds increased nearly 30 percent (from 9.4 to 12.1) and the percent who gained over 40 pounds rose by a similar amount (from 15.1 to 19.1) (tables 22, 24, 25). In short, in 2001, almost 1 in 3 women gained outside the IOM quidelines.

The rise in weight gains of over 40 pounds cannot be attributed to the sharp rise in the multiple birth rate (women with multifetal pregnancies tend to gain more weight than women with singleton pregnancies (39)); women with singleton gestation pregnancies have exhibited increases in excessive weight gain very comparable to trends for all women (from 14.6 to 18.5 percent between 1989 and 2001).

Weight gained during pregnancy differed widely by racial/ethnic groups. The percent of non-Hispanic black women with inadequate weight gains of under 16 pounds was 17.4 in 2001, two-thirds higher than the level for non-Hispanic white women (10.2). Among the Asian or Pacific Islander groups, Japanese women were most likely to gain under 16 pounds in 2001 (11.6 percent) and Chinese women were the least likely (6.9 percent). Wide differences in excessive weight gain of over 40 pounds were apparent among the API subgroups, ranging from a low of 8.5 percent for Japanese to a high of 27.4 percent for Hawaiian women. American Indian women had comparatively high rates of both inadequate and excessive weight gain (16.9 percent under 16 pounds; 19.6 percent over 40 pounds).

Among the Hispanic subgroups, Mexican mothers were twice as likely to gain less than 16 pounds as Cubans (16 compared with 8 percent). Conversely, excessive weight gain was much more common among Cuban (22.4 percent) than among Mexican mothers (13.4 percent).

Levels of both inadequate and excessive weight gain have increased since 1989 for almost all racial and Hispanic origin groups. Japanese women showed the most dramatic increase in inadequate weight gain; the proportion doubled between 1989 and 2001 (from 7.8 to 11.6 percent). Although a comparatively small proportion of Chinese women had excessive weight gain in 2001, the proportion has increased nearly 60 percent since 1989 (from 7.2 to 11.4).

Shortened gestational periods prevent optimal maternal weight gain; groups with the higher levels of inadequate weight gain also tend to have higher preterm rates (under 37 weeks gestation) (table 22). Non-Hispanic black and American Indian infants have high levels of quate weight gain as well as higher preterm rates compared with non-Hispanic whites. Weight gain discrepancies among these groups narrow as length of gestation increases.

Maternal weight gain also has been shown to have a positive correlation with infant birthweight (38,41). In 2001 as in previous years, the percent of low birthweight infants declined with increasing maternal weight gain through 36-40 pounds (from 13.7 to 5.3 percent) (table 23). A similar pattern generally can be observed for non-Hispanic white, non-Hispanic black, and Hispanic infants for each gestational

Medical risk factors

Medical risk factors during pregnancy can contribute to serious complications and maternal and infant morbidity and mortality, particularly if not treated properly (42-44). Sixteen medical risk factors that can affect pregnancy outcome are separately identified on the birth certificate (table 26). Medical risk factor data were missing from only 0.9 percent of records for 2001, a considerable improvement over previous years. However, birth certificate data may underreport or incorrectly report medical risk factor prevalence due to a lack of adherence to uniform definitions and difficulty in interpreting data from medical records (45). Rates for rarely occurring medical risk factors and for smaller population groups can vary from year to vear and should be used with caution.

In 2001 the most frequently reported medical risk factors were pregnancy-associated hypertension (37.7 per 1,000 live births), diabetes (31.1) and anemia (25.0) (table 26). These have been the most frequently reported risk factors since these data have been available from birth certificates. Pregnancy-associated hypertension declined slightly in 2001 (from 38.8 in 2000) for the first time in a decade after having risen steadily since 1990 (from 27.2). Rates for diabetes and anemia have also risen about 40 percent over this time period. Pregnancy-associated hypertension, chronic hypertension, and eclampsia are all closely related hypertensive disorders, but the latter two are rarer conditions. The rate for chronic hypertension has increased since 1990 (6.5 in 1990; 8.1 in 2001), whereas the eclampsia rate has declined (4.0 in 1990; 3.2 in 2001).

The reported rate of hydramnios/oligohydramnios (the excess or shortage of amniotic fluid) has consistently increased during the 1990s, more than doubling between 1990 and 2001 (from 5.9 to 13.7). These conditions have been associated with maternal diabetes (35, 46). Acute or chronic lung disease (e.g., asthma, tuberculosis) also has risen dramatically. Although reported for only 1 percent of all women overall, the rate of lung disease has more than tripled between 1990 and 2001 (from 3.0 to 12.1 per 1,000) and has increased for all age groups, most notably for younger women. In the early 1990s, this condition was slightly more prevalent in older women. However, since 1992, the higher risk has shifted strongly toward younger women.

The incidence of medical risk factors during pregnancy can vary greatly by maternal race and ethnicity (tables 27 and 28). For 2001, American Indian women had the highest rates of three of the most prevalent maternal medical risk factors: pregnancy-associated hypertension, diabetes, and anemia (5 percent each). Chinese women had a similarly high level of diabetes (5 percent), but have low levels of pregnancy-associated hypertension and anemia. Differences are also found among the Hispanic subgroups. For instance, diabetes levels ranged from 2 percent for Cuban, to 4 percent for Puerto Rican mothers.

The risk of having a medical condition during pregnancy often differs by maternal age (table 26). For example, teenage mothers are nearly twice as likely to have anemia during pregnancy compared with women aged 40 and over (36.0 compared with 19.8 per 1,000). Older mothers, conversely, are more prone to chronic conditions such as diabetes (71.7 for mothers 40 years and over compared with 9.2 for mothers under 20); chronic hypertension (25.0 compared with 2.9); and cardiac disease (9.5 compared with 2.7). Some risk factors, however, such as pregnancy-associated hypertension, follow a U-shaped pattern, with the highest levels at the extremes of the maternal age distribution.

Tobacco use during pregnancy

Smoking during pregnancy declined in 2001 to 12.0 percent of women giving birth, down 38 percent from 1989 (19.5 percent) when this information first became available from the birth certificate (47, 48). Among smokers, 27 percent smoked half a pack (11 cigarettes) or more per day in 2001, down from 41 percent in 1989. Information on tobacco use was reported on the birth certificates of all States except for California in 2001. The reporting area of 49 States and the District of Columbia accounted for 87 percent of U.S. births in 2001. The number of States reporting tobacco use increased during the 1990s; information on the impact of these changes on the trends in prenatal smoking is provided in a recent report (48).

Maternal smoking is believed to be somewhat underreported on the birth certificate due to several factors, including the lack of a specific time reference for smoking status, variations in the source of the information for each birth, and the considerable stigma associated with tobacco use which may be intensified in cases of poor birth outcome (48–52). Nonetheless, the trends identified from birth certificate data are generally consistent with trends from several nationally representative surveys. In addition, data from other studies have confirmed the variations in smoking among population subgroups based on birth certificate data (14,53,54).

Tobacco use during pregnancy is one of the key preventable causes of a number of adverse pregnancy outcomes, including low birthweight, intrauterine growth retardation, miscarriage, and infant mortality, as well as negative consequences for child health and development (55,56). The costs associated with these adverse outcomes are substantial (57).

Smoking rates were highest for older teenagers, 18–19 years (19.0 percent), followed by women aged 20–24 years (17.0 percent); rates are lowest for the youngest teenagers and women in their thirties (tables 24, 25, and 29–32). Smoking rates declined in 2001 for teenagers and for women in age group 25–54 years. As in 2000, there was a small increase in 2001 for women aged 20–24 years.

Rates of smoking during pregnancy declined modestly in most racial and Hispanic origin groups. Substantial variations persist in smoking rates, with the highest rates reported for American Indian, non-Hispanic white, and Hawaiian women, and the lowest rates, for Chinese, Japanese, Mexican, Filipino, and Central and South American women (tables 24 and 25). Women born in the 50 States and the District of Columbia have substantially higher smoking rates than women born outside these areas, a pattern that has been noted elsewhere (58). Disparities in smoking rates are particularly large for teenage population subgroups. For example, among young s 15–17 years, the proportion smoking ranged from 2 to

3 percent of Mexican and Central and South American teenagers to 29 percent of non-Hispanic white teenagers (**figure 5**). Details of smoking patterns and trends by age, race, and Hispanic origin, and by State are described in a recent report (48).

The likelihood that a woman will smoke during pregnancy is strongly associated with her educational attainment, with smoking rates for women who have attended but not completed high school about 12 times the rates of college educated women (table 31). Among women aged 20 years and older, overall, 28 percent with 9–11 years of education smoked during pregnancy, and 48 percent of non-Hispanic white women in this category were smokers (tabular data not shown).

Birth certificate data as well as data from other studies have consistently confirmed the negative impact of smoking on infant birthweight (55,56). In 2001 the rate of low birthweight among babies born to smokers was nearly two-thirds higher than that for nonsmokers, 11.9 percent compared with 7.3 percent, essentially unchanged from 2000. In general, the gap tends to widen with advancing maternal age, probably a consequence of the greater cigarette consumption of older compared with younger women (table 29). There is no "safe" level of smoking, even among births to the lightest smokers, that is one to five cigarettes daily, who account for nearly one-third of all smokers. The percent low birthweight for births to the lightest smokers was 11.3 percent in 2001, 55 percent higher than for nonsmokers (tabular data not shown).

Alcohol use during pregnancy

Alcohol use during pregnancy can severely jeopardize birth outcome, independent of other risk factors including tobacco use and other maternal risk factors (59,60). Questions on alcohol use were on the birth certificates of the District of Columbia and all States except California in 2001, accounting for 87 percent of U.S. births.

Maternal alcohol use continues to be substantially underreported on birth certificates compared with information collected in nationally representative surveys of pregnant women. In 2001 as in 2000, fewer

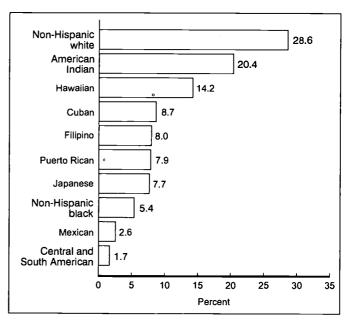


Figure 5. Percent of mothers 15-17 years who smoked during pregnancy by race and ethnicity, 2001

than 1 percent of women reported alcohol use during pregnancy—0.9 percent compared with 4.1 percent in 1989, the first year for which these data were reported on birth certificates (data for 2001 shown in tables 24 and 25). The most recent study of alcohol use during pregnancy from the Centers for Disease Control and Prevention's Behavioral Risk Factor Surveillance System (BRFSS) found a drinking rate of 12.8 percent in 1999 compared with 1.0 percent reported from birth certificate data for 1999 (61, 62). The BRFSS data suggested an overall decline in alcohol use during the late 1990s, but no change in rates of binge drinking (61).

While alcohol use, especially heavy use, is clearly a major risk factor for poor pregnancy outcome, it appears that the current birth certificate question on alcohol use is not sensitive enough to measure this behavior accurately. The current question has no time reference (alcohol use at any time during pregnancy) nor does it encourage the reporting of very light alcohol use (the question refers to the number of drinks per week). In addition, the stigma of maternal alcohol use likely contributes to the underreporting (61).

Medical Services Utilization

Prenatal care

The proportion of women who began prenatal care in the first trimester of pregnancy rose slightly for 2001 to 83.4 percent, compared with 83.2 percent for 2000. Timely initiation of prenatal care showed little improvement during the 1980s, but has risen fairly steadily since 1990 (from 75.8 percent). (See table D and tables 33–35.) The percent of women who began care in the third trimester of pregnancy or received no care at all, declined from 3.9 to 3.7 percent between 2000 and 2001, and has dropped from 6.1 percent in 1990. (The percent of women with no care at all was 1.1 for 2001, nearly half the level reported for 1990 (2.0 percent).) See

Table D. First trimester prenatal care by race and Hispanic origin of mother: United States, 1980, 1985, and 1990–2001

	All	Non-H	ispanic	Amorican	Asian or Pacific	
Year	races ¹	White	Black	American Indian ²	Islander ²	Hispanic ³
2001	83.4	88.5	74.5	69.3	84.0	75.7
2000	83.2	88.5	74.3	69.3	84.0	74.4
1999	83.2	88.4	74.1	69.5	83.7	74.4
1998	82.8	87.9	73.3	68.8	83.1	74.3
1997	82.5	87.9	72.3	68.1	82.1	73.7
1996	81.9	87.4	71.5	67.7	81.2	72.2
1995	81.3	87.1	70.4	66.7	79.9	70.8
1994	80.2	86.5	68.3	65.2	79.7	68.9
1993	78.9	85.6	66.1	63.4	77.6	66.6
1992	77.7	84.9	64.0	62.1	76.6	64.2
1991	76.2	83.7	61.9	59.9	75.3	61.0
1990	75.8	83.3	60.7	57.9	75.1	60.2
1989	75.5	82.7	59.9	57.9	74.8	59.5
1985	76.2			57.5	74.1	
1980	76.3			55.8	73.7	

⁻⁻⁻ Data not available.

³Includes all persons of Hispanic origin of any race.



figure 1. Recent studies suggest that the expansion of Medicaid for pregnant women in the late 1980s has contributed to the increase in prenatal care utilization observed for the 1990s (63). Although the effectiveness of prenatal care continues to be debated (64), appropriate prenatal care can enhance pregnancy outcome and long-term maternal health by managing preexisting and pregnancy-related medical conditions, providing health behavior advice, and assessing the risk of poor pregnancy outcome (65,66).

For the current year, first trimester care was unchanged among non-Hispanic white women at 88.5 percent, but continued to improve among non-Hispanic black (from 74.3 to 74.5 percent) and Hispanic mothers (74.4 to 75.7 percent). Large differences in timely initiation of prenatal care persist by race and Hispanic origin, but quite substantial gains have been observed for all groups in recent years. Improvement has been especially marked among groups which historically have tended to utilize care less. Since 1990 the percent of non-Hispanic black mothers with first trimester care has risen 23 percent (from 60.7 in 1990) and the proportion of black mothers who received no care at all dropped from 4.7 to 2.3 percent. Strong gains in prenatal care utilization have also been evident among Hispanic women. The proportion of Hispanic women with timely care rose 26 percent between 1990 and 2001 (from 60.2 percent in 1990) and no care fell from 4.0 to 1.6 percent.

The percent of American Indian women beginning care in the first 3 months of pregnancy was unchanged for 2001 at 69.3. Although this level has risen notably since 1990 (from 57.9 percent), American Indian women continue to be least likely of all racial/ethnic groups to receive first trimester prenatal care.

Among Asian or Pacific Islander (API) women, 90.1 percent of Japanese women initiated care in the first trimester of pregnancy compared with 79.1 percent of Hawaiian women. Although low in comparison with levels of most other API groups, the current level for Hawaiian women represents a 20 percent gain from that reported for 1990.

Mexican, Puerto Rican, and Central and South American mothers were about 25 percent more likely to receive timely prenatal care in 2001 compared with 1990. Large differences among the Hispanic subgroups are still evident however; in 2001, 91.8 percent of Cuban mothers received early care compared with 74.6 percent of Mexican mothers. See tables 24 and 25 for 2001 data.

Wide variation in prenatal care initiation can also be seen across the United States. The New England States (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, and Vermont) and Iowa reported the highest proportions of mothers with first trimester prenatal care for 2001. At least 88 percent of women residing in these States began care in the first trimester of pregnancy (table 34). In contrast, 69 percent of New Mexico resident mothers accessed care early.

The Adequacy of Prenatal Care Utilization Index (APNCU) was developed to adjust for some of the weaknesses of the two previously used measures; trimester care began and the Kessner Index (an index used widely in the 1990s) (67). The APNCU takes into account the month that prenatal care began, the number of prenatal visits, and adjusts for gestational age (68) (table E). The APNCU includes categories for intensive, adequate, intermediate, and inadequate levels of prenatal care utilization. The "intensive" utilization category (the proportion of women for whom the number of prenatal care visits exceeds the American College of Obstetricians and Gynecologists' recommendations by a ratio of observed to expected visits of at least

¹Includes races other than white and black and origin not stated.

²Includes persons of Hispanic and non-Hispanic origin.

Table E. Adequacy of Prenatal Care Utilization Index: United States, 1990 and 1995–2001

	Intensive use	Adequate	Intermediate	Inadequate
2001	31.8	42.7	14.0	11.6
2000	31.2	43.0	14.0	11.9
1999	31.6	43.1	13.6	11.7
1998	31.0	43.3	13.8	11.9
1997	30.7	43.3	14.0	12.0
1996	29.3	43.6	14.7	12.4
1995	28.8	43.7	14.7	12.8
1990	24.6	42.3	15.7	17.4

NOTE: See reference 67 for information on calculation of this measure.

110 percent) rose from 31.2 to 31. 8 percent from 2000 to 2001; intensive utilization of care had risen substantially since the early 1980s (67). The percent of women with inadequate care was down slightly between 2000 and 2001 (from 11.9 to 11.6 percent). The APNCU shows a one-third decline in inadequate care since 1990.

Obstetric procedures

Six specific obstetric procedures are listed on the birth certificate. Of these, electronic fetal monitoring (EFM) was the most frequently reported in 2001, as in earlier years. Although the benefits and risks of routine use of EFM remain controversial (69) the rate has continually climbed since 1989, from 68.4 to 84.8 percent for 2001 (almost 3.4 million live births) (table 36). More than 67 percent of women who had live births in 2001 received ultrasound. The use of this procedure also has increased steadily since 1989 (47.7 percent). The use of EFM, ultrasound, and other obstetric procedures may be underreported on the birth certificate (70,71).

The rate of induction of labor continued to rise between 2000 and 2001 (from 19.9 to 20.5). The rate for 2001 was more than double the 1989 level of 9.0 percent. Between 1989 (the first year these data were reported on the birth certificate) and 2000, the rate of induction rose every year for all gestational ages, including preterm deliveries (less than 37 completed weeks of gestation). However, for 2001, the induction rate rose only for gestational ages of 37 weeks or more. (**figure 6**). This increase was seen for each major racial and ethnic group (data not shown).

Recent articles on the indications for induction suggest that the growth in the induction rate may be due, in part, to an increase in elective inductions (inductions with no medical or obstetric indication) (72,73). Since spontaneous labor (labor that occurs naturally) is associated with fewer complications than induced labor, elective induction is discouraged (35).

The rate of stimulation of labor was 17.5 percent; this rate has fluctuated only slightly since 1997. However, the 2001 rate is almost two-thirds higher than the 1989 level of 10.9 percent.

The overall rate for tocolysis, the use of agents that decrease uterine activity for the management of preterm labor, was 2.1 percent in 2001. The rate of tocolysis has been fairly stable since 1996. Assessment of the safety and efficacy of tocolytic agents is discussed in a recent report (74).

In 2001 the overall rate for amniocentesis decreased to 2.2 percent of births in 2001 from 2.4 percent in 2000, and has declined since 1989 (3.2 percent). This change may reflect the use of screening tests that are noninvasive (e.g., ultrasound and measurement of serum in lieu of amniocentesis.

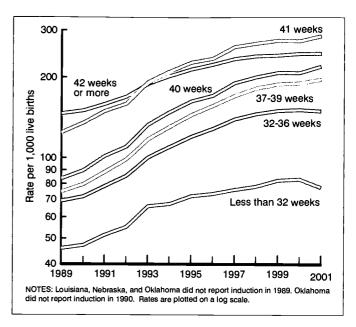


Figure 6. Rates of induction of labor by length of gestation in weeks: United States, 1989–2001

Complications of labor and/or delivery

Depending on the severity of the condition, certain complications of labor and delivery reported on the birth certificate may require medical interventions and may affect the health outcome of the infant. Many of the reported conditions are more common among low birthweight and/or preterm infants. Of the 15 complications of labor and/or delivery reported on the birth certificate, the 5 most frequently reported for 2001 were meconium moderate/heavy (51.5 per 1,000 live births), fetal distress (38.7), breech/malpresentation (38.3), dysfunctional labor (28.1), and premature rupture of membrane (PROM) (23.8) (table 37). Cord and placental complications are infrequent but are among the top 10 leading causes of infant death (75). Abruptio placenta occurred in almost 22,000 births (5.4 per 1,000); placenta previa occurred in more than 13,000 births (3.3 per 1,000); cord prolapse occurred in over 7,000 births (1.8 per 1,000).

Multiple complications of labor and delivery may be reported for a mother and different complications may be related. For example, causes of fetal distress include placenta abruptio and cord prolapse; cord prolapse is also associated with breech/malpresentation (46). Data on complications of pregnancy were missing from less than 1 percent of records for 2001, but birth certificate data may underreport prevalence of complications. (70,76–78).

Complication rates vary among racial/ethnic groups (tables 27 and 28). For example, rates were very divergent for meconium (69.6 per 1,000 for non-Hispanic black compared with 44.6 for non-Hispanic white). Conversely, non-Hispanic white women had substantially higher rates of cephalopelvic disproportion and breech/malpresentation (leading risk factors for cesarean delivery) compared with non-Hispanic black women. A wide range of values was also apparent among Asian or Pacific Islander (API) subgroups. Rates for meconium ranged from 48.1 per 1,000 for Japanese to 66.2 for Hawaiian.

Differences in rates also were evident among Hispanic subgroups. In 2001, rates for meconium ranged from a low of 36.3 for Cuban mothers to a high of 64.1 percent for Central and South American mothers.

Complication rates also can vary by age with risk steadily increasing with age for some conditions (table 37). For example, in 2001, only 1 in 1,000 teenage mothers had placenta previa compared to 9 in 1,000 for mothers 40 and older. In contrast, fetal distress exhibits a U-shaped distribution of risk with the highest rates for women under 20 and over 34 years of age.

Attendant at birth and place of delivery

In 2001 the trends in attendant at birth and place of delivery observed for recent years continued. The percent of all births delivered by **physicians in hospitals** continued to decline slowly but steadily, to 91.3 percent of all births (**table 38**) compared with 98.7 percent in 1975. Most physician-attended births were attended by doctors of medicine (MDs). However, the percent of all births attended by doctors of osteopathy (DOs) grew gradually to 4.3 percent by 2001, from 2.8 percent in 1989, the first year data on DOs were available from the birth certificate.

The percent of births attended by midwives has increased steadily since 1975, climbing from less than 1.0 percent (79) to 8.0 percent in 2001. Midwifery education and hence practice have grown over the past decade (80). A recent report found that nearly all of the increase in midwife-attended births was for those in hospitals (81). Almost 95 percent of all midwife-attended births in 2001 were by certified nurse midwives (CNMs). This level has been fairly stable since 1996. Due to misclassification of midwife-attended deliveries, these data should be considered lower estimates of the actual number of midwife-attended births (4,79).

Ninety-nine percent of births in 2001 were delivered in hospitals, essentially unchanged for the last several decades. The majority of out-of-hospital births were in a residence (65 percent); 28 percent were in a freestanding birthing center. These levels have been fairly stable since 1989. Controversy persists regarding the safety of planned home births (82).

About 92 percent of births to non-Hispanic white women and non-Hispanic black women were attended by a physician in a hospital compared with 90 percent of births to Hispanic women. In 2001 as in previous years, Hispanic women were more likely to have a midwifeattended hospital birth (9.3 percent) than were either non-Hispanic white or black women (6.8 and 7.3 percent, respectively).

Method of delivery

In 2001 nearly one in four live births were delivered by cesarean section. The **rate of cesarean delivery** climbed to 24.4 percent of all births, a 7 percent rise from 2000 (22.9 percent). This rate fell each year between 1989 and 1996, but has risen each year since 1996, by a total of 18 percent, and is now the highest reported since these data first became available from birth certificates (1989) (**table 39 and 40**). This rise in the total rate is due to both the growth in the primary cesarean rate and a steep decrease in the rate of vaginal birth after cesarean delivery (VBAC) (**figure 7**).

The **primary cesarean rate** in 2001 (16.9 per 100 live births to women who had no previous cesarean) was 5 percent higher than in 2000 (16.1), and 16 percent higher than the low reported for 1996–97 (14.6). A comparable rise is observed for low-risk women (i.e., women with full-term, singleton deliveries, with vertex presentations) (data not 100) (83). The increase in primary cesarean deliveries may be

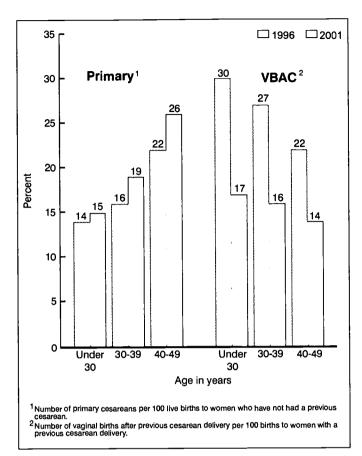


Figure 7. Primary cesarean rates and vaginal birth after cesarean (VBAC) rates by age of mother: United States, 1996 and 2001

related to nonmedical factors such as demographics, physician practice patterns, and maternal choice (84–86).

The rate of vaginal birth after previous cesarean delivery (VBAC) fell 20 percent between 2000 and 2001—from 20.6 per 100 women with a previous cesarean to 16.4. The VBAC rate declined precipitously between 1996 and 2001, by 42 percent, after increasing by 50 percent between 1989 and 1996 (from 18.9 to 28.3). The VBAC rate for low-risk women has fallen at a similar pace (data not shown). The sharp decline in VBAC deliveries may be related to recent reports on the risks associated with VBAC, more conservative practice guidelines, legal pressures (84,87–89), and the continuing controversy regarding the risks and benefits of vaginal birth versus cesarean section, especially with regard to VBAC (84–86).

The primary rate increased and the VBAC rate decreased for all age, racial and ethnic groups (including subgroups). As in previous years, overall cesarean rates rose steadily as maternal age increased; the rate for mothers 40–54 years of age (38.0) was more than twice that of mothers under age 20 (16.8) (table 40). The elevated risk of cesarean delivery in older women may be related to biologic factors, patient/practitioner concerns (90) and the increased rate of multiple births.

The primary cesarean rate rose 5 to 6 percent for non-Hispanic white, non-Hispanic black and Hispanic women between 2000 and 2001. The primary rate for non-Hispanic black women (18.3) continued to be higher than the rate for non-Hispanic white women (17.2) and

18

Hispanic women (15.2). The VBAC rate declined about 20 percent for each group. In 2001 the VBAC rate was similar for non-Hispanic white women (16.8) and non-Hispanic black women (16.7), and lower for Hispanic women (14.7). A detailed discussion of trends in cesarean and VBAC rates by race and Hispanic origin in the 1990s may be found in a recent report (91).

The overall cesarean rate for American Indian women in 2001 (21.6 percent) was lower than that for non-Hispanic white (24.5) and black mothers (25.9) (tables 24 and 25). Among the Hispanic subgroups, the rate of cesarean delivery ranged between 22.9 and 25.3, except for Cuban mothers whose rate was considerably greater (34.6), possibly due in part to their older age at childbearing. All API subgroups, except Filipino mothers (26.6), had lower rates of cesarean delivery than either non-Hispanic white or black mothers. Among the API subgroups, Japanese mothers had the lowest rate (20.1), despite having the highest percent of mothers 35 years of age and over.

From 2000 to 2001, overall cesarean rates increased for all 50 States and the District of Columbia. For 2001 as for earlier years, variation in cesarean rates by State was considerable, ranging from 17.2 percent for Utah, to 29.9 percent for Louisiana (table 41). The rate for Puerto Rico was 42.0.

Between 2000 and 2001, VBAC rates decreased in 49 States and the District of Columbia. For 2001, rates ranged from 8.2 in Louisiana, to 40.0 per 100 in Vermont.

Cesarean rates were higher than the national rate for most of the selected medical risk factors, and complications of labor and/or delivery in **table 42**. For example, more than half of mothers with eclampsia and almost all mothers with cephalopelvic disproportion (96.5 percent) had a cesarean section.

As might be anticipated, coinciding with the rise in the cesarean delivery rate, the percent of births delivered by either forceps or vacuum extraction decreased between 2000 and 2001, from 7.0 to 6.3 percent (data not shown). The 2001 rate is 34 percent lower than the high of 9.5 percent in 1994 (81).

Infant Health Characteristics

Period of gestation

The **preterm birth rate** rose to 11.9 percent for 2001, the highest level reported in at least 2 decades. The percent of births born preterm (at less than 37 completed weeks of gestation) has risen 12 percent since 1990 (from 10.6 percent), and 27 percent since 1981 (from 9.4 percent). The **very preterm birth rate** (less than 32 completed weeks of gestation) was 1.95 percent for 2001, compared with 1.93 percent for 2000. In contrast to the pronounced upward trend in preterm births overall, the proportion of very preterm infants is essentially unchanged from 1990 (1.92 percent), and only moderately higher than the 1981 level (1.81 percent). (**See tables F**, **24, 25, 43, 44, and figure 8.**)

Although much progress has been made in recent years in lowering mortality among infants born too early, preterm newborns, especially those born at the shorter gestational ages, are at heightened risk of long-term disability and death. For 2000, 18 percent of very preterm infants died within the first year of life, compared with 1 percent of moderately preterm infants (32–36 weeks), and 0.03 percent of infants

Table F. Rate of preterm birth among singletons by race and Hispanic origin of mother, United States: 1990, 1995, 2000, and 2001

	2001	2000	1995	1990¹
Total, all races, origins ²	_	Per	cent	
Less than 32 weeks	1.57 8.81 10.38	1.58 8.54 10.12	1.61 8.21 9.82	1.69 8.01 9.70
Non-Hispanic white				
Less than 32 weeks	1.15 7.83 8.98	1.14 7.55 8.69	1.13 6.99 8.12	1.11 6.43 7.54
Non-Hispanic black				
Less than 32 weeks	3.52 12.49 16.01	3.58 12.29 15.87	3.83 12.70 16.53	4.22 13.63 17.85
Hispanic ³				
Less than 32 weeks	1.45 9.04 10.49	1.48 8.82 10.30	1.48 8.64 10.12	1.52 8.77 10.29

¹Data by race and Hispanic origin exclude data for New Hampshire and Oklahoma, which did not require reporting of Hispanic origin of mother.

do survive are more likely to be neurologically impaired than their term counterparts (92). Experts caution that meaningful reduction in preterm rates is unlikely until the causes of preterm delivery are better understood and effective prevention methods developed (92,93).

The upward trend in preterm births over the past 20 years, particularly for non-Hispanic whites, has been influenced in part by the rise in the multiple birth rate (preterm rates are much higher among multiple births than among singletons), and by the increase in preterm multiple deliveries (94). Between 1990 and 2001, the singleton very preterm birth rate declined from 1.69 to 1.57 percent (compared with an essentially stable very preterm rate for all births), and the rate of moderately preterm births (32–36 weeks) rose 10 percent for singletons (compared with a 15 percent increase for all pluralities). See table F for singleton trend.

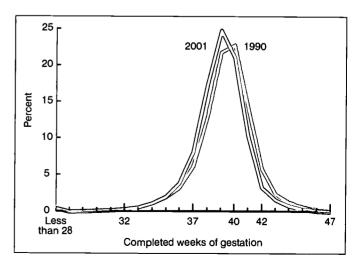


Figure 8. Percent of distribution of singleton births by gestational age: United States, 1990 and 2001

²Includes births to races not shown.

³Includes persons of Hispanic origin of any race.

Preterm births were up quite sharply from 2000 to 2001 among non-Hispanic white mothers, from 10.4 to 10.8 percent. Since 1990 the non-Hispanic white preterm rate has climbed by more than 25 percent (from 8.5 percent). The very preterm rate has also risen, though to a lesser extent, from 1.33 to 1.55 percent over this period. A marked rise in preterm *singleton* non-Hispanic white births was also observed between 1990 and 2001 (from 7.5 to 9.0 percent), but this increase was largely limited to moderately preterm births (**see table F**).

The percent of black infants born preterm was up slightly for 2000–2001, from 17.3 to 17.5 percent. The preterm birth rate for black mothers is down from a peak of 18.9 percent in 1991, but is still slightly higher than levels reported for the early 1980s. The very preterm rate for black infants for 2001, 4.02 percent, is the lowest reported since 1981, the earliest year for which comparable data are available. Despite this progress, black mothers of all ages continue to be much more likely than mothers of other racial/ethnic groups to deliver before 32 weeks of gestation (data not shown).

Among Hispanic births, the preterm rate returned to the level reported for 1998–99, 11.4 percent. The proportion of preterm births to Hispanic mothers has been fairly stable since national data became available for this group in 1989. Among the Hispanic subgroups, preterm birth rates ranged from 10.6 percent for Cuban births to 13.7 percent for Puerto Rican births for 2001. (See table 25 for 2001 data.)

The 2001 preterm incidence for American Indians was 13.2 percent, compared with 12.7 percent for 2000. In 2001 as in previous years, Chinese and Japanese women were the least likely of any of the racial/Hispanic origin groups to deliver at less than 37 weeks of gestation (7.7 and 8.8 percent, respectively) (table 24).

For the current year, 6.9 percent of births were delivered postterm, or at 42 or more weeks of gestation. This represents more than a one-third decline from the level reported for 1990 (11.3 percent).

As would be expected, given the increase in preterm and decrease in post-term deliveries between 1990 and 2001, a marked shift in the gestational age distribution for all births (not shown), and for singletons can be observed for this period (table F). The average or mean singleton gestational age also has shortened somewhat (from 39.2 to 38.8 weeks). Numerous factors, including the wider use of medical procedures to induce labor, may be contributing to these changes (72,95).

Birthweight

The low birthweight rate (LBW) was 7.7 percent for 2001, up slightly from 7.6 percent for 2000 to the highest level recorded since the early 1970s. The proportion of LBW infants (weight at delivery of less than 2,500 grams or 5 and a half pounds) has climbed 13 percent since the mid 1980s (from 6.8 percent). (See tables 43–47 and figure 9.) The percent of very low birthweight (VLBW) infants (less than 1,500 grams or 3 and one fourth pounds) was 1.44 for 2001. This measure has been fairly stable since 1997, but has risen from 1.27 percent in 1990, and 1.16 percent in 1981. Although the risk of early death for infants born LBW has attenuated somewhat in recent years, the mortality rate for LBW infants continues to be at least 20 times that of heavier infants (75), and LBW infants who survive, especially VLBW infants, are more likely to suffer long-term disabilities (96).

Although LBW has been on the rise for the Nation as a whole over ast decade, quite different trends are observed by race and

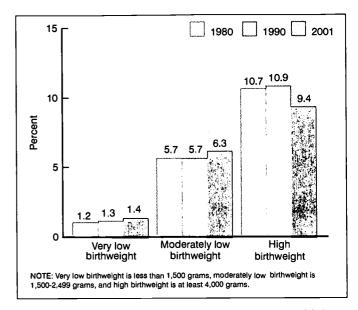


Figure 9. Percent very low, moderately low, and high birthweight births: United States, 1980, 1990, and 2001

Hispanic origin. Whereas a distinctly upward trend is evident for non-Hispanic white births, only a very modest rise is reported in Hispanic LBW, and among black infants, a slight decline in LBW is apparent.

The LBW rate among non-Hispanic white births rose from 6.6 to 6.8 percent between 2000 and 2001, and has climbed more than 20 percent since 1990 (from 5.6 percent). Some of this increase can be attributed to the steep rise in the rate of multiple births among this group (infants born in multiple deliveries are about 10 times as likely to be LBW as are singletons), and to a lesser extent, by an increase in LBW among multiples themselves (see the section on multiple births) (94,97).

The LBW rate for non-Hispanic white *singletons* was 4.96 percent for 2001, a small increase from 2000 (4.88 percent) (**table G**). Since 1990 singleton non-Hispanic white LBW has risen, but at a slower pace than LBW among all pluralities, from 4.56 percent, or by 9 percent. Most of this increase was among moderately low birthweight infants, that is, infants born at 1,500–2,499 grams (from 3.83 to 4.15 percent); VLBW among non-Hispanic white births changed only from 0.73 to 0.81 percent between 1990 and the current year. A recent study found that singletons conceived with assisted-reproductive technology, procedures which account for an increasing number of births (98–101), are at greater risk of LBW than those conceived spontaneously (102).

The 2001 LBW rate for births to non-Hispanic black mothers was 13.1 percent, unchanged from 2000. In contrast to trends for non-Hispanic white infants, LBW among non-Hispanic black infants has improved modestly from levels reported for the early 1990s (13.6 percent in 1991), and has been essentially stable since 1995. The percent of VLBW non-Hispanic black infants was 3.08 in 2001, about the same as that in 2000 (3.10 percent), but up somewhat from the level reported for 1990 (2.93 percent). When only singleton births are examined, the LBW rate among non-Hispanic black births has declined from 11.9 to 11.2 percent between 1990 and 2001, and the VLBW rate has been stable (2.57 percent in 2001) (table G). Despite the more positive trends, singleton infants born to black mothers continue to be more than twice as likely as non-Hispanic white or Hispanic infants to weigh less than 2,500 grams at birth.

Table G. Rate of very low birthweight and low birthweight, and mean birthweight among singletons by race and Hispanic origin of mother, United States: 1990, 1995, 2000, and 2001

	2001	2000	1995	1990¹
Total, all races, origins ²				
Percent very low birthweight Percent low birthweight Mean/Standard deviation ³	1.10 6.04 3,339(573)	6.00	1.08 6.05 3,353(581)	1.05 5.90 3,365(583)
Non-Hispanic white				
Percent very low birthweight Percent low birthweight Mean/Standard deviation ³	0.81 4.96 3,399(557)		0.78 4.87 3,416(563)	0.73 4.56 3,433(562)
Non-Hispanic black				
Percent very low birthweight Percent low birthweight Mean/Standard deviation ³	2.57 11.19 3,135(632)	11.28	2.55 11.66 3,132(635)	2.54 11.92 3,128(635)
Hispanic⁴				
Percent very low birthweight Percent low birthweight Mean/Standard deviation ³		0.94 5.36 3,344(552)	0.93 5.36 3,343(553)	0.87 5.23 3,351(552)

¹Data by race and Hispanic origin exclude data for New Hampshire and Oklahoma, which did not require reporting of Hispanic origin of mother.

NOTE: Very low birthweight is less than 1,500 grams. Low birthweight is less than 2,500 grams.

For 2001, 6.5 percent of Hispanic births weighed less than 2,500 grams compared with 6.4 percent for 1997–2000. Since 1990, this measure has risen moderately for Hispanic births, from 6.1 percent. Hispanic VLBW was 1.14 percent in 2001, unchanged since 1999. Low birthweight among Hispanic singletons was 5.40 percent for 2001 compared with 5.23 percent in 1990; VLBW among Hispanic singletons is essentially unchanged over this period (0.9 percent) (table G).

Notwithstanding differences in LBW trends among non-Hispanic white, non-Hispanic black, and Hispanic births, these groups demonstrate similar reductions of 20 to 25 percent in infant mortality rates between 1990 and 2000 (75,103).

The diversity of the Hispanic subgroups is underscored by large differences in LBW risk among the groups; for example, the rate of LBW for births to Puerto Rican mothers (9.3 percent) was more than 50 percent higher than that for births to Mexican mothers (6.1 percent). (See table 25.) Among the API subgroups, Chinese infants were the least likely (5.3 percent) and Filipino infants the most likely (8.7 percent), to weigh less than 5 and a half pounds (table 24).

The percent of higher birthweight or macrosomic births (4,000 grams or more, or at least 8 pounds, 14 ounces) was down markedly between 2000 and 2001, from 9.9 to 9.4 percent. The proportion of higher birthweight infants has generally trended downward after peaking at around 11 percent in the 1980s. (See figure 9.) From 2000 to 2001, macrosomia declined quite substantially among non-Hispanic white infants (from 11.7 to 11.1 percent), but was comparatively stable for Hispanic (9 percent), and non-Hispanic black infants (5 percent) (tables 24 and 25).

The **mean birthweight** for singleton births for 2001 was 3,339 or 7 pounds, 6 ounces (table G). The mean weight of non-

Hispanic white singletons was 3,399 grams, at least 250 grams (9 ounces) higher than the average weight of non-Hispanic black singletons (3,135 grams).

The risk of delivering an LBW infant is highest for the youngest (less than 15 years) and the oldest mothers (45 years of age and over) (table 45). Much of the excess LBW risk of older mothers can be attributed to their higher multiple birth rates. In 2001 one-third of all LBW births to women 45 years of age and over was a multiple birth, compared with 11 percent of LBW births to women under 20 years of age.

There are large differences among the States in VLBW and LBW rates (tables 46 and 47). For 2001, LBW levels for non-Hispanic white births ranged from 5.0 (Alaska) to 8.4 percent (West Virginia). As in previous years, the highest State-specific rate for non-Hispanic white births was lower than the lowest State-specific rate for non-Hispanic black births; 2001 LBW rates for States with at least 1,000 non-Hispanic black births ranged from 9.8 percent in Minnesota, to 14.4 percent in Arizona and Louisiana.

Apgar score

The Apgar score is a routinely performed method of evaluating the general physical condition of the newborn at 1 minute, 5 minutes, and if desired, at additional 5-minute intervals after delivery (104-106). The score measures five easily identifiable infant characteristics-heart rate, respiratory effort, muscle tone, reflex irritability, and color. Each characteristic is assessed and assigned a value of 0 to 2, with 2 being optimum. The total score is the sum of the scores of the five components (104). A score of 0 to 3 indicates an infant in need of resuscitation; a score in the range of 4 to 6 is considered intermediate; a score of 7 or greater indicates that the neonate is in good to excellent physical condition. The 1-minute Apgar (no longer available from national vital statistics data), signals the need for immediate resuscitation. The 5-minute Appar score can be a useful clinical indicator of the effectiveness of resuscitation efforts, but has limited use in determining the severity of the problem and correlates poorly with future neurologic outcome (105). In 2001 all States except California and Texas reported information on the 5-minute Apgar score, accounting for 78 percent of all U.S. births.

In 2001 the proportion of newborns with Apgar scores of 9 or 10, indicating excellent infant health status has increased very slowly from 88.6 percent in 1978 to 90.3. The proportion of births with low Apgar scores (below 7) declined over 30 percent from 1978 to 1993 (2.1 percent to 1.4) and remained unchanged since then (1.4 percent in 2001) (tables 24 and 25).

For non-Hispanic black infants, unfavorable Apgar scores have declined and excellent Apgar ratings have increased in the past decade, while low and high Apgar ratings have remained steady for non-Hispanic whites. Despite the improvement in scores for non-Hispanic black infants, disparities persist between the two groups. In 2001, 2.3 percent of non-Hispanic black infants have Apgar scores under 7 compared with 1.2 percent of non-Hispanic white infants.

Multiple births (twins, triplets, etc.) are at higher risk of poor outcome compared with singletons (see section on Multiple births) and are thus more likely to have lower Apgar scores. Interestingly, Apgar scores have improved among both multiple and singleton births over the last two decades. Between 1978 and 2001 the percent of multiples with low Apgar scores dropped by nearly one-half (from 9.6 to 4.9); low

²Includes births to races not shown separately.

³Computed in grams.

⁴Includes persons of Hispanic origin of any race.

Apgar scores for singletons declined from 2.0 to 1.2 percent over this period. The amelioration in Apgar scores suggests improvements in resuscitation techniques (107,108).

Abnormal conditions of the newborn

Eight abnormal conditions are reported on the birth certificate. Each year since these data have been collected (1989), the three most frequently reported conditions have been assisted ventilation less than 30 minutes, assisted ventilation of 30 minutes or longer, and hyaline membrane disease/respiratory distress syndrome (RDS) (table 48).

In 2001 the rate for assisted ventilation less than 30 minutes was 22.0 per 1,000. The rate has nearly doubled since 1989 (11.4). The rate of assisted ventilation of 30 minutes or longer was 9.3 per 1,000. This rate has also slowly increased since 1989 (6.9). Assisted ventilation is a mainstay in the treatment of respiratory disorders such as RDS (109,110).

The overall rate of hyaline membrane disease (RDS) was 6.0 per 1,000 in 2001 and has been decreasing slowly since the highest levels were reported for 1994–95 (6.7). Hyaline membrane disease/RDS is a frequent cause of morbidity in preterm infants (111). Risk factors include early gestational age, poorly controlled maternal diabetes, multiple births, and fetal asphyxia (109).

The rate for meconium aspiration syndrome (1.6) has been slowly decreasing since 1989 (3.2); the rate for anemia (1.0) was half the 1989 rate (2.0).

Abnormal conditions may be underreported on the birth certificate (77,112). For example, at birth the observable features of fetal alcohol syndrome (FAS), a leading preventable cause of developmental disabilities and birth defects, may be subtle or not recognized (61,113).

Congenital anomalies

The leading cause of infant deaths in the United States, congenital anomalies, are also a cause of metabolic disorders and disabilities (75,106,114,115). Congenital anomalies are reported on the birth certificates of 49 States and the District of Columbia, accounting for more than 99 percent of births in 2001 (table 49).

Although congenital anomalies are underreported on the birth certificate, birth certificate data may be a valuable resource for exploratory or corroborative studies (77,116). A recent report using birth certificate data corroborated findings of a positive association between maternal smoking and selected birth defects, including cleft lip/palate and clubfoot (116). Complete reporting of these conditions is limited by difficulties in detection at birth (77,117). Anomalies that are most serious and/or apparently cause functional or cosmetic impairment are more likely to be recognized and reported prior to hospital discharge (117). The congenital anomalies reported on the birth certificate are rare events and a small change in the number of anomalies reported can result in a relatively large change in rates. Therefore, caution should also be used in comparing yearly rates for a specific anomaly.

In 2001 rates for the 21 malformations/groups of malformations listed on the birth certificate were essentially unchanged from 2000. The rate of cleft lip/palate was 80.6 per 100,000 births. Clubfoot was reported at a rate of 58.6 per 100,000.

The rate for spina bifida/meningocele in 2001 was 19.9 per 100 births; the rate for anencephalus was 9.9. Since 1992 there

has been a nationwide effort to prevent neural tube defects, such as spina bifida and anencephalus, by encouraging increased intake of folic acid among women of childbearing age; fortification of all cereal and grain products with folic acid has been mandatory since 1998 (118). Increased folate use among women of childbearing age was recently reported (119). Significant declines in the rates for these conditions have been observed between 1996 (prefortification) and 2001 (118,120).

Multiple births

The **twin birth rate** continued to climb for 2001, rising 3 percent, to 30.1 per 1,000 total live births. (See table 50 for 2001 data.) The twinning rate has climbed 33 percent since 1990 (22.6 per 1,000), and 59 percent since 1980 (18.9 per 1,000). The current year marks the first that the proportion of all U.S. births that are twins exceeded 3 percent. There were 121,246 births in twin deliveries in 2001, 77 percent more than the number reported for 1980 (68,339) (121).

Twinning rates increased between 2000 and 2001 among non-Hispanic white (33.5 per 1,000 in 2001), and non-Hispanic black mothers (33.9), but were essentially unchanged for Hispanics (20.3). Twin birth rates were up for the current year among all age groups except teenagers, but increases were most pronounced for mothers 40 years of age and older. Twinning rates have risen for all age groups over the last decade, but the largest increases have been for older mothers. Between 1990 and 2001, the twin birth rate for women 40–44 years has almost doubled, rising from 24.7 to 48.1 per 1,000; the rate for women 45–49 years has climbed more than 7 times, from 23.8 to 170.1 (figure 10). In contrast, the twin birth rate for women 20–24 years has risen a comparatively modest 16 percent, from 19.2 to 22.3 per 1,000 over this period. In 2001, 17 percent of all births to women 45–49 years of age were twins.

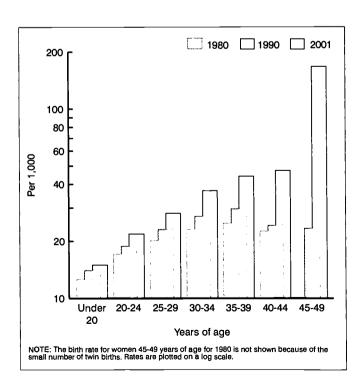


Figure 10. Twin birth rates by age of mother: United States, 1980, 1990, and 2001

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Following 2 years of decline, the **birth rate for triplets and other higher order multiples** (triplet/+) also rose 3 percent, to 185.6 triplet/+ births per 100,000. After surging dramatically between 1980 and 1998 (from 37.0 to 193.5 per 100,000) the triplet/+ birth rate (the number of triplets, quadruplets, and quintuplets, and other higher order multiples per 100,000 live births) declined slightly in 1999 and 2000. The current level remains lower than the 1998 peak, however. There were 7,471 triplet/+ births in 2001: 6,885 triplets, 501 quadruplets, and 85 quintuplets and other higher order multiples. The number of quadruplets and quintuplets and other higher order multiples has been fairly stable since 1996 (122).

The upsurge in multiple births over the last 2 decades, especially in triplet/+ births, has been associated with two related trends: advances in, and greater access to fertility therapies (assisted reproductive technologies (ART) such as *in vitro* fertilization (IVF), and non-ART procedures such as intrauterine insemination and ovulation-inducing drugs), and with the older age of childbearing (women in their thirties are more likely to have a multiple birth than younger women even without the use of fertility therapies) (123–125). A study of 1997 triplet/+ births estimated that 43 percent resulted from ART, 38 percent were the result of ovulation-inducing drugs; only 20 percent of triplet/+ births were spontaneously conceived (98).

Between 1990 and 1998, the triplet/+ birth rate climbed an average of 13 percent annually. Notwithstanding the 3 percent rise in the triplet/+ rate for the current year, the dramatic surge in triplet births appears to have subsided, at least for the short term. The shift in this trend, particularly among older women (see figure 11)—those most likely to seek fertility therapy—suggests the influence of more than changing demographics. In 1999 The American College of Obstetricians and Gynecologists and The American Society of Reproductive Medicine issued recommendations intended to prevent triplets/+ pregnancies because of their elevated risk of poor outcome (126,127). Recent refinements to fertility-enhancing therapies, particularly to IVF, which lower the risk of multifetal pregnancy, also may be affecting the incidence of higher order multiple births (126–129).

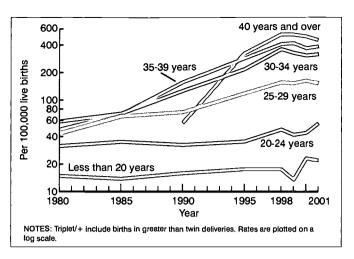


Figure 11. Triplet/+ birth rates by age of mother: United States, 1980–2001

The rate of triplet/+ births rose 3 percent between 2000 and 2001 for non-Hispanic white and Hispanic women (to 253.3 and 83.3 per 100,000, respectively), and 8 percent among non-Hispanic black women (90.0). Age-specific triplet/+ birth rates for non-Hispanic white mothers are similar to those of black mothers through age group 20–24 years, but are more than double those of black mothers thereafter.

The elevated risk of multiple births is demonstrated in **text table H**. In 2001 the average twin was delivered more than 3 weeks earlier than the average singleton (35.4 compared with 38.8); the average triplet was born more than 6 weeks earlier (32.0). The average triplet weighed about half of its singleton counterpart at birth. Although infant mortality has declined by about a third for both twins and triplet/+ between 1990 and 2000, the risk of early death for twins continues to be nearly 5 times that of singletons and the risk for triplets/+ 10 times as high (75, 103). Those who survive are at increased risk of long-term disabilities such as cerebral palsy (130). Women with multiple-fetal pregnancies are also at increased risk—they are more likely to develop pregnancy-induced complications (130).

Table H. Gestational age and birthweight characteristics by plurality: United States, 2001

	Twins	Triplets	Quadruplets	Quintuplets/+	Singletons
Number	121,246	6,885	501	85	3,897,216
Percent very preterm ¹	11.8	36.7	64.5	78.6	1.6
Percent preterm ²	57.4	92.4	97.8	91.7	10.4
standard deviation	35.4(3.7)	32.0(4.0)	29.6(4.1)	29.1(3.9)	38.8(2.5)
Percent very low birthweight ³	10.2	34.8	68.4	77.4	1.1
Percent low birthweight ⁴	54.9	94.0	98.4	91.7	6.04
standard deviation	2,353(647)	1,678(574)	1,290(549)	1,269(676)	3,339(573)

¹Very preterm is less than 32 completed weeks of gestation.



²Preterm is less than 37 completed weeks of gestation.

³Very low birthweight is less than 1,500 grams.

⁴Low birthweight is less than 2,500 grams.

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29 30 31	Race of mother	326	527	\rightarrow			\dashv	-		\dashv				629	640	641		643	344	645	949	647	348	349	650
	Tobacco use				59	30	-	32		_															

Includes data for Puerto Rico, Virgin Islands, Guam, American Samoa, and Northem Marianas.
Pliculdes white, black, American Indian, Asian or Pacific Islander.
Pincludes white and black.
Alfoludes white and black.
Holludes Waxican, Puerto Rican, Cuban, Central and South American, other and unknown Hispanic, non-Hispanic white, and non-Hispanic black.
Pincludes white, black, American Indian, Chinese, Japanese, Hawaiian, Filipino, and other Asian and Pacific Islanders.
Pincludes Hispanic, non-Hispanic white, and non-Hispanic black.

Table 1. Live births, birth rates, and fertility rates, by race: United States, specified years 1940-55 and each year, 1960-2001

[Birth rates are live births per 1,000 population in specified group. Fertility rates are live births per 1,000 women aged 15-44 years in specified group. Population enumerated as of April 1 for census years and estimated as of July 1 for all other years. Beginning with 1970, excludes births to nonresidents of the United States]

		Number						Birth rate					Fertility rate				
Year	All races ¹	White	Black	American Indian ²	Asian or Pacific Islander	All races 1	White	Black	American Indian ²	Asian or Pacific Islander	All races ¹	White	Black	American Indian ²	Asian o Pacific Islande		
Registered pirths																	
Race of mother:																	
2001		3,177,626	606,156		200,279	14.5	13.9	17.0	16.9	17.2	66.9	66.3	69.5	70.8	69.4		
2000			622,598	41,668	200,543	14.7	14.1	17.6	17.1	17.8	67.5	66.5	71.7	71.4	70.7		
1999		3,132,501	605,970		180,776	14.5	13.9	17.4	16.8	16.7	65.9	65.1	70.1	69.7	65.6		
1998			609,902		172,652	14.6	14.0	17.7	17.1	16.4	65.6	64.6	71.0	70.7	64.0		
1997 1996			599,913 594,781	37,880	169,769 165,776	14.5 14.7	13.9 14.1	17.7 17.8	16.6 16.6	16.9 17.0	65.0 65.3	63.9 64.3	70.7 70.7	69.1 68.7	66.3 65.9		
1995			603,139		160,287	14.8	14.2	18.2	16.6	17.3	65.6	64.4	72.3	69.1	66.4		
1994			636,391	37,740	157,632	15.2	14.4	19.5	17.1	17.5	66.7	64.9	76.9	70.9	66.8		
1993			658,875	38,732	152,800	15.5	14.7	20.5	17.8	17.7	67.6	65.4	80.5	73.4	66.7		
1992			673,633		150,250	15.9	15.0	21.3	18.4	18.0	68.9	66.5	83.2	75.4	67.2		
1991			682,602	38,841	145,372	16.3	15.4	21.9	18.3	18.2	69.6	67.0	85.2	75.1	67.6		
1990			684,336		141,635	16.7	15.8	22.4	18.9	19.0	70.9	68.3	86.8	76.2	69.6		
1989			673,124	39,478	133,075	16.4	15.4	22.3	19.7	18.7	69.2	66.4	86.2	79.0	68.2		
1988			638,562	37,088	129,035	16.0	15.0	21.5	19.3	19.2	67.3	64.5	82.6	76.8	70.2		
1987			611,173	35,322	116,560	15.7	14.9	20.8	19.1	18.4	65.8	63.3	80.1	75.6	67.1		
1986		3,019,175	592,910	34,169	107,797	15.6	14.8	20.5	19.2	18.0	65.4	63.1	78.9	75.9	66.0		
1985 1984 ³	3,760,561	3,037,913 2,967,100	581,824 568,138	34,037 33,256	104,606 98,926	15.8 15.6	15.0 14.8	20.4 20.1	19.8 20.1	18.7 18.8	66.3 65.5	64.1 63.2	78.8 78.2	78.6 79.8	68.4 69.2		
1983 3	3 638 933		562,624	32,881	95,713	15.6	14.8	20.1	20.1	19.5	65.7	63.4	78.7	81.8	71.7		
1982 3	3 680 537	2.984.817	568,506		93,193	15.9	15.1	20.7	21.1	20.3	67.3	64.8	80.9	83.6	74.8		
1981 ³	3.629.238	2.947.679	564,955	29,688	84,553	15.8	15.0	20.8	20.0	20.1	67.3	64.8	82.0	79.6	73.7		
1980 3	3,612,258	2,936,351	568,080	29,389	74,355	15.9	15.1	21.3	20.7	19.9	68.4	65.6	84.7	82.7	73.2		
Race of child:																	
1980 3	3,612,258	2.898,732	589,616	36,797		15.9	14.9	22.1			68.4	64.7	88.1				
	3,494,398		577,855	34,269		15.6	14.5	22.0			67.2	63.4	88.3				
1978 ³	3,333,279	2,681,116	551,540	33,160		15.0	14.0	21.3			65.5	61.7	86.7				
1977 ³	3,326,632	2,691,070	544,221	30,500		15.1	14.1	21.4			66.8	63.2	88.1				
1976 3	3,167,788	2,567,614	514,479	29,009		14.6	13.6	20.5			65.0	61.5	85.8				
1975 ³	3,144,198	2,551,996	511,581	27,546		14.6	13.6	20.7			66.0	62.5	87.9				
	3,159,958	2,575,792	507,162	26,631		14.8	13.9	20.8			67.8	64.2	89.7				
1973 ³	3,130,905	2,551,030	512,597	26,464		14.8	13.8	21.4			68.8	64.9	93.6				
1972 ³ 1971 ⁴	3,555,970	2,655,558	531,329 564,960	27,368 27,148		15.6 17.2	14.5 16.1	22.5 24.4			73.1 81.6	68.9 77.3	99.9 109.7				
	3,731,386		572,362	25.864		18.4	17.4	25.3			87.9	84.1	115.4				
1969 4	3,600,206	2,993,614	543,132	24,008		17.9	16.9	24.4			86.1	82.2	112.1				
1968 4	3,501,564	2.912.224	531,152	24,156		17.6	16.6	24.2			85.2	81.3	112.7				
9675	3,520,959	2,922,502	543,976	22,665		17.8	16.8	25.1			87.2	82.8	118.5				
	3,606,274	2,993,230	558,244	23,014		18.4	17.4	26.2			90.8	86.2	124.7				
1965 ⁴	3,760,358	3,123,860	581,126	24,066		19.4	18.3	27.7			96.3	91.3	133.2				
1964 ⁴	4,027,490	3,369,160	607,556	24,382		21.1	20.0	29.5			104.7	99.8	142.6				
1963 4, 6	4,098,020	3,326,344	580,658	22,358		21.7	20.7				108.3	103.6					
1962 ^{4, 6}	4,167,362	3,394,068	584,610	21,968		22.4	21.4				112.0	107.5					
1961 ⁴ 1960 ⁴	4,268,326 4,257,850	3,600,864 3,600,744	611,072 602,264	21,464 21,114		23.3 23.7	22.2 22.7	31.9			117.1 118.0	112.3 113.2	153.5				
Births adjusted for underregis- ration	7,207,000	5,000,7 11	00L,E04	21,114	_	20.7	22.7	01.0				,, , ,	,50.5				
Race of child:																	
1955	4 097 000	3 485 000				25.0	23.8	•			118.3	113.7					
1955 1950		3,465,000				25.0 24.1	23.0				106.2	102.3					
1945		2,471,000				20.4	19.7				85.9	83.4					
1940						19.4	18.6				79.9	77.1					
	_,,	, ,															

Data not available.

NOTES: Race and Hispanic origin are reported separately on birth certificates. In this table all women (including Hispanic women) are classified only according to their race; see Technical notes. Denominators for population-based rates for 1991-2001 are derived from the 1990 U.S.Census. As a result, rates for more recent years are generally larger than would be the case if 2000-based estimates were used. The magnitude of the overestimate will vary by population subgroup; overestimates are likely greatest for those of Hispanic origin; see Technical notes.



For 1960-91 includes births to races not shown separately. Includes births to Aleuts and Eskimos.

Includes births to Aleuts and Eskimos.
 Based on 100 percent of births in selected States and on a 50-percent sample of births in all other States; see Technical notes.
 Based on a 50-percent sample of births.
 Based on a 20- to 50-percent sample of births.
 Figures by race exclude New Jersey.

Table 2. Live births by age of mother, live-birth order, and race of mother: United States, 2001

[Live-birth order refers to number of children bom alive to mother]

								Age c	of mother						
Live-birth order and	All	Under			15-1	9 years									
race of mother	ages	15 years	Total	15 years	16 years	17 years	18 years	19 years	20-24 years	25-29 years	30-34 years	35-39 years	40-44 years	45-49 years	
All races	4,025,933	7,781	445,944	20,150	45,367	79,807	126,361	174,259	1,021,627	1,058,265	942,697	451,723	92,813	4,844	239
1st child	1,594,954	7,614	349,743				98,653	122,109	468,447	376,247	271,596	100,701			72
2d child		132	79,446	757		10,196	23,448	41,592	351,949	363,743	340,023	146,291			
3d child	675,748	4	12,958	22	212	929	3,317	8,478	143,255	198,094	194,844	106,196		813	
4th child	263,242	3	1,692	1	12	63	351	1,265	41,418	76,435	79,868		11,775	534	
5th child	95,640	-	190	5	•	7	41	137	10,054	26,216	30,068	22,491		355	1
6th child	38,436	-	17	-	-	-	5	12	2,330	9,063	12,686	10,556		200	
7th child	17,216	-	4	-	1	-	-	3	518	3,262	5,733	5,485	2,064	149	
3th child and over	18,161		2	-	-	-	-	2	176	1,713	4,913	6,980	3,929	442	(
Not stated	13,788	28	1,892	97	217	371	54 6	661	3,480	3,492	2,966	1,535	361	33	•
White	3,177,626	4,095	318,563	12,584	30,510	56,098	91,284	128,087	779,529	850,343	777,294	368,816	74,856	3,936	194
1st child	1,259,698	3.997	253,947	12.040	28,173	48.612	72.711	92,411	369,796	307,860	224.370	82,773	15.931	965	59
2d child		76	54 299	454	2.046	6,604	15.985	29,210	272,320	299,410	284,130	119,205		985	
3d child	535,772	3	7.860	12	116	553	1.957	5.222	102.060	158,157	163,007		15,786	648	
4th child	200,992	3	862	1	5	32	168	656	25,885	56,866	65,028	42,484		413	
5th child	68,913		91	3		6	22	60	5,346	17,517	22,912	17,815		286	
6th child	26,563	_	10		_		4	6	1,116	5.328	8.939	8.180		157	' '
7th child	11.487	_	10				-	1	217	1,693	3,766	4.056		116	-
8th child and over	12.031	-	2	•		•	-	,	98	795	2,798	4,903		339	
Not stated	10,748	16	1,491	74	170	291	437	519	2,691	2,717	2,790	1,182	279	27	
Black	606,156	3,455	110,843	6.881	13,163	20.778	30,516	39,485	199,221	137,400	94,660	·	11,001	495	
	·	-				•	•	•	•			•			
1st child	226,781	3,394	82,823		11,771		22,385	24,997	75,958	33,344	20,450	8,901	1,821	88	
2d child	178,091	49	22,241	278	1,279	3,244	6,627	10,813	66,880	43,050	29,124	13,902		97	
3d child	107,910	1	4,593	10	89	339	1,229	2,926	36,127	31,663	21,721	11,397		83	
4th child	50,244	-	764	-	5	29	171	559	13,931	16,234	11,117	6,497	1,623	75	
5th child	21,954	-	91	2	-	1	18	70	4,297	7,327	5,628	3,576	986	49	
6th child	9,678	-	6	•	-	-	1	5	1,108	3,147	2,981	1,833	574	28	
7th child	4,616	-	3	-	1	-	-	2	270	1,351	1,532	1,134	305	21	
8th child and over	4,752	-	-	-	-	-	-	-	70	776	1,695	1,583	577	49	- 2
Not stated	2,130	11	322	22	38	64	85	113	580	508	412	242	50	5	
American Indian 1	41,872	145	7,939	357	863	1,475	2,257	2,987	14,071	9,878	6,190	2,940	674	34	. 1
1st child	14.639	139	6.018	342	784	1,261	1.682	1.949	5,177	1.949	944	339	69	3	. 1
2d child	11,619	5	1,587	15	72	192	496	812	4.975	2.882	1,482	562		3	
3d child	7,560		260	13	3	14	62	181	2,653	2,465	1,436	623		4	
4th child	3,989		29	•		1	3	25	896	1,431	1,430	504	102	10	
	1,896	_	29	-	-		3								
5th child	974	•	2	-	•	•	•	2	213	664	564	367	85	1	
6th child		-		-	-	•	-	-	53	280	360	226	50	5	
7th child	480	•	-	-	•	•	-	-	13	97	194	133		2	
8th child and over Not stated	479 236	1	43	:	4	7	. 14	18	4 87	50 60	166 27	173 13	80 5	6	
Asian or Pacific Islander	200,279	86	8,599	328	811	1,456	2,304	3,700		-				379	2
MOIGHT OF F GOING ISIGNIGHT	200,279	00	0,099	320	011	1,400	2,304	3,700	28,806	60,644	64,553	30,902	6,282	319	20
1st child	93,836	84	6,955	317	744	1,267	1,875	2,752	17,516	33,094	25,832	8,688		98	
2d child	67,616	2	1,319	10	56	156	340	757	7,774	18,401	25,287	12,622		79	
3d child	24,506	•	245	-	4	23	69	149	2,415	5,809	8,680	5,958		78	
4th child	8,017	-	37	-	2	1	9	25	706	1,904	2,706	2,003	622	36	; ;
5th child	2,877	-	6	-	-	-	1	5	198	708	964	733		19	
6th child	1,221	-	1	-	-	-	-	1	53	308	406	317		10	
7th child	633	-			-		-	-	18	121	241	162		10	
8th child and over	899	-	-		-			-	4	92	254	321	179	48	
Not stated	674		36	1	5	9	10	11	122	207	183	98		1	
	U17	_	50	•		3		• • •	122	201		30		•	

NOTE: Race and Hispanic origin are reported separately on birth certificates. In this table all women (including Hispanic women) are classified only according to their race; see Technical notes.



⁻ Quantity zero.

1 Includes births to Aleuts and Eskimos.

Table 3. Fertility rates and birth rates by age of mother, live-birth order, and race of mother: United States, 2001

[Rates are live births per 1,000 women in specified age and racial group. Fertility rate computed by relating total births, regardless of age of mother, to women aged 15-44 years. Live-birth order refers to number of children born alive to mother. Figures for live-birth order not stated are distributed]

						Age of	mother				
Live-birth order and race of mother	15-44 years	10-14	15-19 years			- 20-24	25-29	30-34	35-39	40-44	45-49
		years	Total	15-17 years	18-19 years	years	years	years	years	years	years
All races	66.9	0.8	45.8	25.2	75.5	109.9	121.3	95.2	41.3	8.1	0.5
st child	26.6	0.8	36.1	22.5	55.7	50.6	43.3	27.5	9.2	1.7	0.1
d child	21.8	0.0	8.2	2.5	16.4	38.0	41.8	34.4	13.4	2.3	0.1
d child	11.3	•	1.3	0.2	3.0	15.5	22.8	19.7	9.7	1.7	0.1
th child	4.4	•	0.2	0.0	0.4	4.5	8.8	8.1	4.7		
th child	1.6		0.0	0.0						1.0	0.1
					0.0	1.1	3.0	3.0	2.1	0.5	0.0
th and 7th child	0.9	-	0.0	-	0.0	0.3	1.4	1.9	1.5	0.5	0.0
th child and over	0.3	•	•	•	•	0.0	0.2	0.5	0.6	0.3	0.0
/hite	66.3	0.5	41.4	21.9	69.7	106.2	124.5	98.9	41.9	8.0	0.5
st child	26.4	0.5	33.2	19.7	52.7	50.5	45.2	28.6	9.4	1.7	0.1
d child	22.0	0.0	7.1	2.0	14.4	37.2	44.0	36.3	13.6	2.2	0.1
d child	11.2	•	1.0	0.2	2.3	13.9	23.2	20.8	10.0	1.7	0.1
th child	4.2	•	0.1	0.0	0.3	3.5	8.4	8.3	4.8		
th child	1.4	•	0.0	0.0						1.0	0.1
			0.0		0.0	0.7	2.6	2.9	2.0	0.5	0.0
th and 7th child	0.8	_	_			0.2	1.0	1.6	1.4	0.5	0.0
th child and over	0.3	•	•	•	•	0.0	0.1	0.4	0.6	0.3	0.0
lack	69.5	2.2	73.2	45.6	113.2	138.3	104.1	67.0	32.2	7.3	0.4
st child	26.1	2.1	54.9	39.7	76.8	52.9	25.4	14.5	5.9	1.2	0.1
d child	20.5	0.0	14.7	5.4	28.3	46.6	32.7	20.7	9.2	1.8	0.1
d child	12.4	•	3.0	0.5	6.7	25.2	24.1	15.4	7.5	1.5	0.1
th child	5.8	•	0.5	0.0	1.2	9.7	12.3				
th child	2.5	•		0.0				7.9	4.3	1.1	0.1
			0.1		0.1	3.0	5.6	4.0	2.4	0.7	0.0
th and 7th child	1.6		-			1.0	3.4	3.2	2.0	0.6	0.0
th child and over	0.5	•	•	•	•	0.0	0.6	1.2	1.0	0.4	0.0
merican Indian ²	70.8	1.2	66.0	36.7	111.9	134.0	105.4	68.0	32.5	7.4	0.4
st child	24.9	1,1	50.3	32.7	78.0	49.6	20.9	10.4	3.8	0.8	
d child	19.8	•	13.3	3.8	28.1	47.7	. 30.9	16.4	6.2	1.4	•
d child	12.9	•	2.2	•	5.2	25.4	26.5	15.8	6.9	1,3	
th child	6.8	•	0.2	•	0.6	8.6	15.4	11.2	5.6	1.1	
th child	3.2	•	•	•	0.0	2.0	7.1	6.2	4.1		
th and 7th child	2.5				•					0.9	_
th child and over	0.8	•	•	•	•	0.6	4.0 0.5	6.1 1.8	4.0 1.9	1.0 0.9	
sian or Pacific Islander	69.4	0.2	20.4	10.2	35.6	70.1	125.5	118.3	59.2	12.5	0.9
								110.0	30.2	12.5	0.9
st child	32.6	0.2	16.5	9.2	27.5	42.8	68.7	47.5	16.7	3.1	0.2
d child	23.5	•	3.1	0.9	6.5	19.0	38.2	46.5	24.3	4.2	0.2
d child	8.5	•	0.6	0.1	1.3	5.9	12.1	15.9	11.4	2.6	0.2
th child	2.8	•	0.1	•	0.2	1.7	4.0	5.0	3.8	1.2	0.2
th child	1.0	•	•	•	V	0.5	1.5				
th and 7th child	0.6	•	•	•				1.8	1.4	0.5	0.0
th child and over	- · -			•	_	0.2	0.9	1.2	0.9	0.4	0.0
in Gring arid over	0.3	_	_	-	-	-	0.2	0.5	0.6	0.4	0.1

Figure does not meet standards of reliability or precision; based on fewer than 20 births in numerator.
 0.0 Quantity more than zero but less than 0.05.
 Birth rates computed by relating births to women aged 45-54 years to women aged 45-49 years.
 Includes births to Aleuts and Eskimos.

NOTES: Race and Hispanic origin are reported separately on birth certificates. In this table all women (including Hispanic women) are classified only according to their race; see Technical notes. Denominators for population-based rates are derived from the 1990 U.S. Census. As a result, rates are generally larger than would be the case if 2000-based estimates were used. The magnitude of the overestimate will vary by population subgroup; overestimates are likely greatest for those of Hispanic origin; see Technical notes.



Table 4. Total fertility rates and birth rates by age of mother: United States, 1970-2001, and by age and race of mother: United States, 1980-2001

[Total fertility rates are sums of birth rates for 5-year age groups multiplied by 5. Birth rates are live births per 1,000 women in specified group. Population enumerated as of April 1 for 1970, 1980, and 1990, and estimated as of July 1 for all other years]

						Age of	mother			_	
Year and race	Total fertility	10.14		15-19 years		20-24	25-29	30-34	35-39	40-44	45-49
	rate	10-14 years	Total	15-17 years	18-19 years	years	years	years	years	years	years 1
All races ²				25.0		400.0	404.0	05.0	44.0	0.4	0.5
001		0.8 0.9	45.8 48.5	25.2 27.4	75.5 79.2	109.9 112.3	121.3 121.4	95.2 94.1	41.3 40.4	8.1 7.9	0.5
999		0.9	49.6	28.7	80.3	111.0	117.8	89.6	38.3	7.4	0.4
998	2,058.5	1.0	51.1	30.4	82.0	111.2	115.9	87.4	37.4	7.3	0.4
997		1.1	52.3	32.1	83.6	110.4	113.8	85.3	36.1	7.1 6.8	0.4 0.3
996 995		1.2 1.3	54.4 56.8	33.8 36.0	86.0 89.1	110.4 109.8	113.1 112.2	83.9 82.5	35.3 34.3	6.6	0.3
994		1.4	58.9	37.6	91.5	111.1	113.9	81.5	33.7	6.4	0.3
993		1.4	59.6	37.8	92.1	112.6	115.5	80.8	32.9	6.1	0.3
992		1.4	60.7	37.8	94.5	114.6	117.4	80.2 79.5	32.5 32.0	5.9 5.5	0.3 0.2
991 990		1.4 1.4	62.1 59.9	38.7 37.5	94.4 88.6	115.7 116.5	118.2 120.2	80.8	31.7	5.5	0.2
089		1.4	57.3	36.4	84.2	113.8	117.6	77.4	29.9	5.2	0.2
988	. 1,934.0	1.3	53.0	33.6	79.9	110.2	114.4	74.8	28.1	4.8	0.2
987		1.3	50.6	31.7	78.5	107.9	111.6	72.1	26.3	4.4 4.1	0.2 0.2
986		1.3 1.2	50.2 51.0	30.5 31.0	79.6 79.6	107.4 108.3	109.8 111.0	70.1 69.1	24.4 24.0	4.0	0.2
85 84 ³	. 1,844.0	1.2	50.6	31.0	77.4	106.8	108.7	67.0	22.9	3.9	0.2
83 ³	. 1,799.0	1.1	51.4	31.8	77.4	107.8	108.5	64.9	22.0	3.9	0.2
82 ³	1,827.5	1.1	52.4	32.3	79.4	111.6	111.0	64.1	21.2	3.9	0.2
813		1.1	52.2	32.0	80.0	112.2	111.5 112.9	61.4 61.9	20.0 19.8	3.8 3.9	0.: 0.:
80 ³ 79 ³		1.1 1.2	53.0 52.3	32.5 32.3	82.1 81.3	115.1 112,8	111.4	60.3	19.5	3.9	0.
79 ³ 78 ³	. 1,808.0	1.2	52.5 51.5	32.3 32.2	79.8	109.9	108.5	57.8	19.0	3.9	0.
77 ³		1.2	52.8	33.9	80.9	112.9	111.0	56.4	19.2	4.2	0.2
76 ³	1,738.0	1.2	52.8	34.1	80.5	110.3	106.2	53.6	19.0	4.3	0.:
75 ³		1.3	55.6 57.5	36.1	85.0 88.7	113.0 117.7	108.2 111.5	52.3 53.8	19.5 20.2	4.6 4.8	0.0 0.0
74 ³ 73 ³		1.2 1.2	57.5 59.3	37.3 38.5	91.2	117.7	111.3	55.6	22.1	5.4	0.3
72 3	*:	1.2	61.7	39.0	96.9	130.2	117.7	59.8	24.8	6.2	0.4
71 4		1.1	64.5	38.2	105.3	150.1	134.1	67.3	28.7	7.1	0.4
70 4	. 2,480.0	1.2	68.3	38.8	114.7	167.8	145.1	73.3	31.7	8.1	0.9
White 01	. 2,109.5	0.5	41.4	21.9	69.7	106.2	124.5	98.9	41.9	8.0	0.5
100	. 2,113.5	0.6	43.6	23.6	72.7	107.9	124.3	97.4	40.7	7.8	0.4
99		0.6	44.6	24.8	73.5	107.0 107.2	121.1 119.1	93.2 90.5	38.8 37.8	7.3 7.2	0.4 0.4
98 97		0.6 0.7	45.4 46.3	25.9 27.1	74.6 75.9	107.2	116.6	87.8	36.4	6.9	0.
96		0.8	48.1	28.4	78.4	107.2	116.1	86.3	35.6	6.7	0.
95	. 1,989.0	0.8	50.1	30.0	81.2	106.3	114.8	84.6	34.5	6.4	0.
94		0.8	51.1	30.7	82.1	106.2	115.5	83.2	33.7 32.7	6.2 5.9	0. 0.
93 92		0.8 0.8	51.1 51.8	30.3 30.1	82.1 83.8	106.9 108.2	116.6 118.4	82.1 81.4	32.7	5.7	0.
91		0.8	52.8	30.7	83.5	109.0	118.8	80.5	31.8	5.2	ŏ
90		0.7	50.8	29.5	78.0	109.8	120.7	81.7	31.5	5.2	0.
89	1,931.0	0.7	47.9	28.1	72.9	106.9	117.8	78.1	29.7	4.9	0.
88		0.6	44.4	26.0	69.6	103.7	114.8	75.4 73.0	27.7	4.5 4.1	0.
87		0.6 0.6	42.5 42.3	24.6 23.8	68.9 70.1	102.3 102.7	112.3 110.8	73.0 70.9	25.9 23.9	3.8	0.
86 85		0.6	43.3	24.4	70.1	104.1	112.3	69.9	23.3	3.7	ŏ
843		0.6	42.9	24.3	68.4	102.7	109.8	67.7	22.2	3.6	0
83 ³	1,740.5	0.6	43.9	25.0	68.8	103.8	109.4	65.3	21.3	3.6	0
82 ³		0.6	45.0	25.5 25.4	70.8 71.5	107.7 108.3	111.9 112.3	84.0 61.0	20.4 19.0	3.6 3.4	0
81 ³ 80 ³		0.5 0.6	44.9 45.4	25.4 25.5	71.5 73.2	111.1	113.8	61.2	18.8	3.5	ŏ
Black				4	410.5	400.0	454.4	~~ ^	00.0	7.0	^
01		2.2	73.2	45.6 50.4	113.2	138.3	104.1	67.0 67.5	32.2 32.2	7.3 7.2	0
00 99		2.4 2.6	79.4 81.0	50.4 52.0	121.3 122.8	144.2 141.7	105.3 101.9	67.5 64 .5	32.2 30.8	6.5	ő
98		2.0	85.4	56.8	126.9	141.9	101.8	64.7	30.5	6.7	ŏ
97		3.3	88.2	60.8	130.1	139.0	99.5	64.3	29.7	6.5	0
96	2,144.0	3.6	91.4	64.7	132.5	136.8	98.2	63.3	29.1	6.1	0
95		4.2	96.1	69.7	137.1	137.1	98.6 104.0	64.0 65.8	28.7 28.9	6.0 5.9	0
94 93		4.6 4.6	104.5 108.6	76.3 79.8	148.3 151.9	146.0 152.6	104.0 108.4	67.3	28.9	5.9 5.9	0
92		4.0	112.4	81.3	157.9	158.0	111.2	67.5	28.8	5.6	ŏ
91	2,480.0	4.8	115.5	84.1	158.6	160.9	113.1	67.7	28.3	5.5	0
90	2,480.0	4.9	112.8	82.3	152.9	160.2	115.5	68.7	28.1	5.5	0
89		5.1	111.5	81.9	151.9	156.8	114.4	66.3	26.7 25.6	5.4 5.1	0
988		4.9	102.7	75.7 72.1	142.7 135.8	149.7 142.7	108.2 104.3	63.1 60.6	25.6 24.6	5.1 4.8	0
187 186		4.8 4.7	97.6 95.8	72.1 69.3	135.8	137.3	104.3	59.3	23.8	4.8 4.8	ď
985 985		4.7	95.4	69.3	132.4	135.0	100.2	57.9	23.9	4.6	Ö
984 ³	2,070.5	4.4	94.1	69.2	128.1	132.2	98.4	56.7	23.3	4.8	0
983 ³	2,066.0	4.1	93.9	69.6	127.1	131.9	98.4	56.2	23.3	5.1	0
982 ³	2,106.5	4.0	94.3	69.7	128.9	135.4	101.3	57.5	23.3	5.1	0
981 ³		4.0	94.5	69.3	131.0	136.5	102.3	57.4 59.9	23.1 23.5	5.4 5.6	0
980 ³	2,176.5	4.3	97.8	72.5	135.1	140.0	103.9	59.9	23.5	0.0	U

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Table 4. Total fertility rates and birth rates by age of mother: United States, 1970-2001, and by age and race of mother: United States, 1980-2001 -- Con.

[Total fertility rates are sums of birth rates for 5-year age groups multiplied by 5. Birth rates are live births per 1,000 women in specified group. Population enumerated as of April 1 for 1970, 1980, and 1990, and estimated as of July 1 for all other years]

		Age of mother										
Year and race	Total fertility	10-14		15-19 years		20-24	25-29	00.04	05.00	10.11		
	rate	years	Total	15-17 years	18-19 years	years	years	30-34 years	35-39 years	40-44 years	45-49 years ¹	
American Indian ⁵												
2001	2,074.5	1.2	66.0	36.7	111.9	134.0	105.4	68.0	32.5	7.4	0.4	
2000	2,100.5	1.3	67.8	39.6	113.1	135.6	106.9	68.3	32.5	7.4	0.4	
1999	2,056.5	1.6	67.8	41.4	110.6	137.1	102.4	64.3	30.7	7.1	0.4	
1998	2,090.5	1.6	72.1	44.4	118.4	139.3	102.2	66.3	30.2	6.4	0.0	
1997	2,047.5	1.7	71.8	45.3	117.6	134.9	100.8	64.2	29.3	6.4	0.4	
1996	2,030.0	1.7	73.9	46.4	122.3	133.9	98.5	63.2	28.5	6.3	*	
1995	2,033.5	1.8	78.0	47.8	130.7	132.5	98.4	62.2	27.7	6.1	•	
1994	2,080.0	1.9	80.8	51.3	130.3	134.2	104.1	61.2	27.5	5.9	0.4	
1993	2,141.0	1.4	83.1	53.7	130.7	139.8	107.6	62.8	27.6	5.9	•	
1992	2,190.0	1.6	84.4	53.8	132.6	145.5	109.4	63.0	28.0	6.1	•	
1991	2,169.0	1.6	85.0	52.7	134.3	144.9	106.9	61.9	27.2	5.9	0.4	
1990	2,183.0	1.6	81.1	48.5	129.3	148.7	110.3	61.5	27.5	5.9	•	
1989	2,247.0	1.5	82.7	51.6	128.9	152.4	114.2	64.8	27.4	6.4	•	
1988	2,153.5	1.7	77.5	49.7	121.1	145.2	110.9	64.5	25.6	5.3	•	
1987	2,099.0	1.7	77.2	48.8	122.2	140.0	107.9	63.0	24.4	5.6	•	
1986	2,082.0	1.8	78.1	48.7	125.3	138.8	107.9	60.7	23.8	5.3	•	
1985	2,128.0	1.7	79.2	47.7	124.1	139.1	109.6	62.6	27.4	6.0	•	
1984 3	2,136.0	1.7	81.5	50.7	124.7	142.4	109.2	60.5	26.3	5.6	•	
1983 3	2,180.5	1.9	84.2	55.2	121.4	145.5	113.7	58.9	25.5	6.4	•	
1982 J	2,213,0	1.4	83.5	52.6	127.6	148.1	115.8	60.9	26.9	6.0	•	
1981 ³	2,090.0	2.1	78.4	49.7	121.5	141.2	105.6	58.9	25.2	6.6	•	
1980 ³	2,162.5	1.9	82.2	51.5	129.5	143.7	106.6	61.8	28.1	8.2	*	
Asian or Pacific												
Islander												
2001	2,035.5	0.2	20.4	10.2	35.6	70.1	125.5	118.3	59.2	12.5	0.9	
2000	2,072.5	0.3	21.6	11.5	37.0	72.0	125.8	120.8	60.4	12.7	0.9	
999	1,927.0	0.3	22.3	12.3	38.0	70.0	116.4	109.3	54.6	11.6	0.9	
998	1,867.5	0.4	23.1	13.8	38.3	68.8	110.4	105.1	52.8	12.0	0.9	
997	1,925.5	0.5	23.7	14.3	39.3	70.5	113.2	110.3	54.1	11.9	0.9	
996	1,907.5	0.6	24.6	14.9	40.4	70.7	111.2	109.2	52.2	12.2	0.8	
995	1,924.0	0.7	26.1	15.4	43.4	72.4	113.4	106.9	52.4	12.1	0.8	
994	1,943.0	0.7	27.1	16.1	44.1	73.1	118.6	105.2	51.3	11.6	1.0	
993	1,935.5	0.6	27.0	16.0	43.3	73.3	119.9	103.9	50.2	11.3	0.9	
992	1,942.0	0.7	26.6	15.2	43.1	74.6	121.0	103.0	50.6	11.0	0.9	
991	1,956.0	0.8	27.4	16.1	43.1	75.2	123.2	103.3	49.0	11.2	1.1	
990	2,002.5	0.7	26.4	16.0	40.2	79.2	126.3	106.5	49.6	10.7	1.1	
989	1,947.5	0.6	25.6	15.0	40.4	78.8	124.0	102.3	47.0	10.7	1.0	
988	1,983.5	0.6	24.2	13.6	39.6	80.7	128.0	104.4	47.5	10.2	1.0	
987	1,886.0	0.6	22.4	12.6	37.0	79.7	122.7	97.0	44.2	9.5	1.1	
986	1,836.0	0.5	22.8	12.1	38.8	79.2	119.9	92.6	41.9	9.3	1.0	
985	1.885.0	0.4	23.8	12.5	40.8	83.6	123.0	93.6	42.7	9.3 8.7	1.2	
984 3	1,892.0	0.5	24.2	12.6	40.7	86.7	124.3	92.4	40.6	8.7 8.7	1.2	
983 3	1,943.5	0.5	26.1	12.9	44.5	94.0	126.2	93.3	39.4	8.2		
982 3	2,015.5	0.4	29.4	14.0	50.8	98.9	130.9	93.3	39.4	8.8	1.0	
981 3	1,976.0	0.3	28.5	13.4	49.5	96.4	129.1	93.4	38.0		1.1	
980 3	1,953.5	0.3	26.2	12.0	46.2	93.3	127.4			8.6	0.9 0.7	
	1,330.3	0.3	20.2	12.0	40.∠	93.3	127.4	96.0	38.3	8.5	0.	

NOTES: Race and Hispanic origin are reported separately on birth certificates. In this table all women (including Hispanic women) are classified only according to their race; see Technical notes. Denominators for population-based rates for 1991-2001 are derived from the 1990 U.S. Census. As a result, rates for more recent years are generally larger than would be the case if 2000-based estimates were used. The magnitude of the overestimate will vary by population subgroup; overestimates are likely greatest for those of Hispanic origin; see Technical notes.



Figure does not meet standards of reliability or precision; based on fewer than 20 births in numerator.
 Beginning 1997, rates computed by relating births to women aged 45-54 years to women aged 45-49 years.
 For 1970-91 includes births to races not shown separately.
 Based on 100 percent of births in selected States and on a 50-percent sample of births in all other States; see Technical notes.
 Based on a 50-percent sample of births.
 Includes births to Aleuts and Eskimos.

Table 5. Fertility rates and birth rates by live-birth order and race of mother: United States, 1980-2001

[Rates are live births per 1,000 women aged 15-44 years. Population enumerated as of April 1 for 1980 and 1990, and estimated as of July 1 for all other years. Figures for live-birth order not stated are distributed]

	Fertility			1	Live-birth order			
Year and race of mother	rate	1	2	3	4	5	6 and 7	8 and ove
All room 1								
All races ¹	66.9	26.6	21.8	11.3	4.4	1.6	0.9	0.3
000	67.5	27.1	21.9	11.3	4.3	1.6	0.9	0.3
99	65.9	26.6	21.5	10.9	4.2	1.5	0.9	0.3
98	65.6	26.4	21.4	10.8	4.2	1.5	0.9	0.3
97	65.0	26.5	21.1	10.6	4.1	1.5	0.9	0.3
96	65.3	26.8	21.1	10.5	4.1	1.5	0.9	0.3
95	65.6	27.3	21.1	10.5	4.0	1.5	0.9	0.3
94	66.7	27.5	21.5	10.7	4.2	1.6	1.0	0.3
93	67.6	27.5	21.9	11.0	4.3	1.6	1.0	0.3
992	68.9	27.8	22.3	11.3	4.4	1.7	1.0	0.3
991	69.6	28.3	22.4	11.4	4.5	1.7 1.7	1.0 1.0	0.3 0.3
990	70.9	29.0	22.8	11.7	4.5 4.3	1.7	0.9	0.3
989	69.2	28.4	22.4 22.0	11.3 10.9	4.3 4.1	1.5	0.9	0.3
988	67.3 65.8	27.6 27.2	21.6	10.5	3.9	1.4	0.8	0.3
987	65.4	27.2 27.2	21.6	10.3	3.8	1.4	0.8	0.3
986 985	66.3	27.2 27.6	22.0	10.4	3.8	1.4	0.8	0.3
984 ²	65.5	27.0 27.4	21.7	10.1	3.7	1.4	0.9	0.3
983 ²	65.7	27.8	21.5	10.1	3.7	1.4	0.9	0.3
982 ²	67.3	28.6	22.0	10.2	3.8	1.4	0.9	0.3
981 ²	67.3	29.0	21.6	10.1	3.8	1.5	0.9	0.4
980 2	68.4	29.5	21.8	10.3	3.9	1.5	1.0	0.4
White								
001	66.3	26.4	22.0	11.2	4.2	1.4	0.8	0.3
000	66.5	26.8	21.9	11.2	4.1	1.4	0.8	0.3
999	65.1	26.4	21.6	10.8	4.0	1.4	0.8	0.2
998	64.6	26.1	21.5	10.7	3.9	1.3	0.8	0.2
997	63.9	26.2	21.2	10.4	3.8	1.3	0.8	0.2 0.2
996	64.3	26.6	21.2	10.4	3.8	1.3 1.3	0.8 0.7	0.2
995	64.4	26.9	21.1	10.3 10.4	3.8 3.8	1.3	0.8	0.2
994	64.9	27.0 27.0	21.4 21.7	10.4	3.9	1.4	0.8	0.2
993	65.4 66.5	27.3	22.0	10.8	4.0	1.4	0.8	0.2
992	67.0	27.8 27.8	22.0	10.8	4.0	1.4	0.8	0.2
991	68.3	28.4	22.4	11.1	4.0	1.4	0.8	0.2
990 989	66.4	27.6	21,9	10.7	3.8	1.3	0.7	0.2
988	64.5	26.8	21.6	10.4	3.6	1.2	0.7	0.2
987	63.3	26.5	21.3	10.0	3.5	1.2	0.7	0.2
986	63.1	26.6	21.3	9.8	3.4	1.2	0.7	0.2
985	64.1	27.0	21.8	9.9	3.4	1.2	0.7	0.2
984 2	63.2	26.8	21.4	9.6	3.3	1.2	0.7	0.2
983 2	63.4	27.2	21.2	9.5	3.3	1.2	0.7	0.2
1982 2	64.8	28.0	21.6	9.6	3.4	1.2	0.7	0.3
981 ²	64.8	28.4	21.1	9.5	3.4	1.2	0.8	0.3
980 2	65.6	28.8	21.3	9.6	3.4	1.3	0.8	0.3
Black			20.5	40.4	5.0	0.5	1.6	0.5
2001	69.5	26.1	20.5	12.4	5.8 5.9	2.5 2.6	1.6 1.7	0.5 0.6
000	71.7 70.1	26.9 26.5	21.3	12.8 12.4	5.9 5.7	2.5	1.7	0.6
999	70.1 71.0	26.5 27.0	20.9 - 21.1	12.4 12.3	5.7 5.7	2.5 2.6	1.7	0.6
998	71.0 70.7	27.0 27.3	20.7	12.1	5.7 5.7	2.5	1.8	0.6
997	70.7 70.7	27.5 27.6	20.7	12.0	5.6	2.6	1.8	0.6
996 995	70.7 72.3	28.7	20.7	12.0	5.7	2.6	1.8	0.6
994	76.9	29.8	22.2	13.1	6.3	2.9	2.0	0.6
993	80.5	30.2	23.4	14.1	6.9	3.1	2.2	0.7
992	83.2	30.6	24.3	15.0	7.2	3.3	2.2	0.6
991	85.2	31.5	25.0	15.4	7.4	3.3	2.1	0.6
990	86.8	32.4	25.6	15.6	7.4	3.2	2.0	• 0.6
989	86.2	32.9	25.4	15.3	7.1	3.0	1.9	0.6
988	82.6	31.8	24.6	14.4	6.6	2.8	1.8	0.5
1987	80.1	31.2	23.8	13.9	6.3	2.7	1.7	0.5
1986	78.9	31.0	23.4	13.5	6.1	2.6	1.7	0.5
1985	78.8	31.0	23.4	13.4	6.1	2.6	1.7	0.5
1984 2	78.1	30.9	23.0	13.2	6.0	2.6	1.7	0.6
1983 2	78.7	31.1	23.1	13.2	6.1	2.7	1.8	0.6
1982 2	80.9	31.7	23.9	13.8	6.3	2.7	1.8	0.7
1981 2	82.0	32.3	24.2	13.7	6.3	2.8	1.9	0.8
1980 2	84.9	33.7	24.7	14.0	6.5	2.9	2.1	0.9

NOTE: Race and Hispanic origin are reported separately on birth certificates. In this table all women (including Hispanic women) are classified only according to their race; see Technical notes. Denominators for population-based rates for 1991-2001 are derived from the 1990 U.S. Census. As a result, rates for more recent years are generally larger than would be the case if 2000-based estimates were used. The magnitude of the overestimate will vary by population subgroup; overestimates are likely greatest for those of Hispanic origin; see Technical notes.



¹ includes races other than white and black.
2 Based on 100 percent of births in selected States and on a 50-percent sample of births in all other States; see Technical notes.

Table 6. Live births, birth rates, and fertility rates by Hispanic origin of mother and by race for mothers of non-Hispanic origin: United States, 1989-2001

[Birth rates are live births per 1,000 population in specified group. Fertility rates are live births per 1,000 women aged 15-44 years in specified group]

				Hispa	ınic			1	Non-Hispanic	
Measure and year	All origins 1	Total	Mexican	Puerto Rican	Cuban	Central and South American	Other and unknown Hispanic	Total ²	White	Black
Number	•									
2001	4.025.933	851,851	611,000	57,568	14,017	121,365	47,901	3,149,572	2,326,578	589.917
2000	4,058,814	815.868	581,915	58,124	13,429	113,344	49,056	3,199,994	2,362,968	604,346
1999	3,959,417	764 339	540,674	57,138	13,088	103,307	50,132	3,147,580	2,346,450	588,981
1998	3,941,553	734.661	516,011	57,349	13,226	98,226	49,849	3,158,975	2,361,462	593,127
1997	3,880,894	709,767	499,024	55,450	12,887	97,405	45,001	3,115,174	2,333,363	581,431
1996	3,891,494	701,339	489,666	54,863	12,613	97,888	46,309	3,133,484	2,358,989	578.099
1995	3,899,589	679,768	469,615	54,824	12,473	94,996	47,860	3,160,495	2,382,638	587,781
1994	3.952.767	665.026	454,536	57,240	11,889	93,485	47,876	3,245,115	2,438,855	619,198
1993	4,000,240	654,418	443,733	58,102	11,916	92,371	48,296	3,295,345	2,472,031	641,273
1992 3	4.049.024	643,271	432,047	59,569	11,472	89,031	51,152	3,365,862	2,527,207	
1991 3	4,094,566	623,085	411,233	59,833	11,058	86,908	54,053	3,434,464	2,527,207	657,450
1990 4	4.092.994	595,073	385,640	58,807	11,311	83,008	56,307		2,565,676	666,758
1989 5	3,903,012	532,249	327,233	56,229	10,842	72,443	65,502	3,457,417		661,701
	0,000,012	302,243	327,233	50,225	10,042	12,443	05,502	3,297,493	2,526,367	611,269
Birth rate										
2001	14.5	25.4						13.0	11.9	17.5
2000 6	14.7	25.1	27.1	20.2	10.4	23.9		13,4	12.2	18.1
1999 6	14.5	24.4	26.4	19.4	9.7	23.4		13.2	12.2	17.9
1998 6	14.6	24.3	26.4	19.0	10.0	23.2		13.4	12.3	18.2
1997 6	14.5	24.2	26.8	18.1	10.1	22.4		13.3	12.2	18.1
1996 6	14.7	24.8	27.4	17.9	10.7	23.4		13.5	12,4	18.3
1995 6	14.8	25.2	26.9	19.7	11.0	25.3		13.7	12.6	18.8
1994 6	15.2	25.5	27.0	21.4	10.8	25.7		14.0	12.8	20.0
1993 ⁶	15.5	26.0	27.4	21.9	10.5	26.9		14.4	13.1	21.1
1992 ^{6, 7}	15.9	26.5	27.8	23.2	10.1	27.9		14.8	13.5	21.9
1991 ^{0, 7}	16.3	26.7	29.2	21.0	10.1	26.5		15.2	13.9	22.5
1990 4, 6	16.7	26.7	28.7	21.6	10.9	27.5		15.7	14.4	23.0
1989 5, 6	16.3	26.2	25.7	23.7	10.0	28.3		15.4	14.2	22.8
Fertility rate										
2001	66.9	107.6						60.8	57.6	71.6
2000 6	67.5	105.9	115.1	84.3	57.3	94.3		61.8	58.5	73.7
1999 ⁶	65.9	102.0	111.6	77.7	51.2	92.6		60.7	57.8	72.2
1998 6	65.6	101.1	112.1	75.5	50.1	90.2		60.7	57.0 57.7	73.0
1997 6	65.0	102.8	116.6	71.7	57.4	87.6		60.1	57.7 57.0	72.4
1996 6	65.3	104.9	119.3	71.3	58.9	90.2		60.3	57.3	72.5
1995 6	65.6	105.0	117.0	71.3 75.7	55.1	94.5		60.8		72.5 74.5
1994 6	66.7	105.6	115.4	81.9	55.9	94.5 97.7		62.0	57.6 58.3	74.5 79.0
	67.6	106.9	114.8	82.5	55.5 55.5	105.0		63.1		
1992 6, 7	68.9	108.6	116.0	89.9	50.3	105.0			59.0	82.7
1991 6, 7	69.6	108.1	121.6	80.9	49.1	99.3		64.4	60.2	85.5
1990 4, 6	71.0	107.7	118.9	82.9	52.6			65.4	61.0	87.6
1989 5, 6	69.2	107.7	106.6	86.6	52.6 49.8	102.7 95.8		67.1 65.7	62.8 60.5	89.0 84.8
						33.8		00.7		

Data not available.

NOTES: Race and Hispanic origin are reported separately on birth certificates. Persons of Hispanic origin may be of any race. In this table Hispanic women are classified only by place of origin; non-Hispanic women are classified by race; see Technical notes. Denominators for population-based rates for 1991-2001 are derived from the 1990 U.S. Census. As a result, rates for more recent years are generally larger than would be the case if 2000-based estimates were used. The magnitude of the overestimate will vary by population subgroup; overestimates are likely greatest for those of Hispanic origin; see Technical notes.



⁻ Data not available.
Includes origin not stated.
Includes races other than white and black.
Excludes data for New Hampshire, which did not report Hispanic origin.
Excludes data for New Hampshire and Oklahoma, which did not report Hispanic origin.
Excludes data for Louisiana, New Hampshire, and Oklahoma, which did not report Hispanic origin.
Rates for the Central and South American population includes other and unknown Hispanic.
Rates are estimated for the United States based on birth data for 49 States and the District of Columbia. Births for New Hampshire that did not report Hispanic origin, are included in the rates for one-Hispanic women; see Tachphical pottes. are included in the rates for non-Hispanic women; see Technical notes.

Table 7. Live births by age of mother, live-birth order, Hispanic origin of mother, and by race for mothers of non-Hispanic origin: United States, 2001

[Live-birth order refers to number of children born alive to mother. Includes births with stated origin of mother only]

			_		_		Aç	ge of mothe	<u> </u>				_		
Live-birth order and	All	11 4-			15-19 չ	/ears			00.04	25.20	20.24	35-39	40-44	45-49	50-
origin of mother	ages	Under 15 years	Total	15 years	16 years	17 years	18 years	19 years	20-24 years	25-29 years	30-34 years	years	years	years	yea
Hispanic			-												
otal	851,851	2,555	130,007	6,936	15,165	25,023	36,298	46,585	258,431	227,910	150,352	67,952	13,956	668	
t child	312,530	2,493	98,662	6,544	13,640	20,629	26,920	30,929	111,378	59,595	28,502	10,048	1,760	84	
child	260,316	46	25,612	319	1,311	3,799	7,868	12,315	92,641	78,564	44,356	16,368	2,620	105	
child	160,289	1	4,226	11	84	370	1,141	2,620	38,772	55,331	40,904	17,833	3,103	117	
child	69,904	2	531	1	5	22	101	402	11,126	22,573	21,576	11,531	2,474	91	
n child	26,556	_	62	ż		5	12	43	2.559	7,460	8,697	6,070	1,618	89	
			3	-		-	1	2	571	2,323	3,415	3,026	985	55	
child	10,381	_	5	_	_	-	•	-	119	792	1,400	1,457	569	40	
child	4,378	-		-	-	-	-				981	1,405	789	86	
n child and over	3,703		1				-		49	391					
t stated	3,794	13	910	59	125	198	255	273	1,216	881	521	214	38	1	
xican	611,000	1,920	98,806	5,312	11,660	19,126	27,565	35,143	192,167	165,177	101,213	42,707	8,600	401	
child	216,639	1,870	74,306	4,996	10,418	15,642	20,215	23,035 9,497	80,215 70,170	38,807 56,692	15,666 27,268	4,940 8,389	800 1,254	32 38	
child	183,757	35	19,910	250	1,054	2,970	6,139						1,734	53	
child	118,713	1	3,299	9	66	299	888	2,037	29,769	42,739	29,725	11,393			
child	53,632	1	407	1	5	20	78	303	8,436	17,745	16,823	8,487	1,671	62	
n child	20,598	-	44	2	-	4	8	30	1,998	5,776	6,786	4,670	1,252	71	
child	8,080	-	3	-	-	-	1	2	429	1,779	2,652	2,402	769		
child	3,494	_	_	_	_	_	-	-	92	618	1,124	1,177	452	31	
child and over	2,932	_	1	_	_	_	_	1	38	296	784	1,095	646	71	
t stated	3,155	13	836	54	117	191	236	238	1,020	725	385	154	22		
erto Rican	57,568	257	10,799	598	1,262	2,161	3,006	3,772	18,669	13,426	9,275	4,254	850	37	
child	22,391	253	8,279	571	1,160	1,830	2,262	2,456	7,278	3,477	2,139	811	145		
child	17,916	4	2,064	25	94	305	629	1,011	6,747	4,506	3,104	1,263	219		
child	10,026	-	381	-	5	25	102	249	3,187	3,116	2,131	1,023	182		
child	4.184	-	45	-	-	-	4	41	1,067	1,379	973	570	143	7	
child	1,690	_	8	-	-		3	5	255	572	510	281	62	2	
child	704				_	_	-	-	75	235	215	135	44	-	
	259						_	_	11	76	97	58	17	-	
n child			•	_	_	_			7	43	82	100	32		
n child and over	268		-	-	-		ē	40		22	24	13	6		
ot stated	130	-	22	2	3	1	6	10	42	22	24	13	·		
ıban	14,017	18	1,031	53	109	201	315	353	2,408	4,047	3,821	2,253	409	23	1
t child	6,269	18	850	51	99	179	253	268	1,405	1.948	1,337	594	109	6	į
child	5,123		162	ž	10	20	55	75	743	1,504	1.654	918	131	8	1
				-		. 2	7	7	192	447	598	511	97		
child	1,867		16	-	-	2	,					140			
n child	498		2	-	-	-	-	2	51	94	166				
n child	151	-	-	-	-	-	-	-	13	29	44	51	14		,
n child	52	-	-	-	-	-	-	-	3	18	12	16			
n child	21	-	-	-	-	-	-	-	1	2	4	8	5	-	
n child and over	28			_	_	_	_	-	-	2	3	14	8	1	
ot stated	8		1	-	-	-	-	1	-	3	3	1	-	-	
entral and South	404.005	400	44.074	400	4 400	4 074	. 160	4.510	30,715	33,621	27,488	14,641	3,279	181	ı
American	121,365		11,271	483	1,136	1,971	3,169	4,512			-				
t child	48,307		9,087	464	1,060	1,690	2,546	3,327	16,285		7,218	2,925			
child	38,628		1,872	16	67	255	553	981	9,927	11,880	9,526	4,563			
child	21,202		249	-	8	22	59	160	3,344		6,436	3,858			
n child	8,163		39	-	-	1	8	30	877	2,268	2,687	1,785			
n child	2,895		5	_	-	1	1	3	147	708	978	814	230) 13	3
n child	1,133		-	_	_		-	_	44		391	363			
n child	416		_	_	_	_	_	_	6		109	163			
			_			-	_	_	2		69				
n child and over	320		4-		1		2	11	83		74	35			
ot stated	301	•	19	3		2	2		03	65	/4	55			-
her and unknown Hispanic	47,901	194	8,100	490	998	1,564	2,243	2,805	14,472	11,639	8,555	4,097	818	3 26	3
et child	18,924		6,140	462	903	1,288	1,644	1,843	6,195	3,342	2,142	778	131	ι 6	3
child	14,892			26	86	249	492		5,054						
			281	20	5	22	85	167	2,280		2,014				
I child	8,481			2	3		11	26	695		927	549			
h child	3,427		38	-	-	1	- 11								
h child	1,222		5	-	-	-	-	5	146						
h child	412		-	-	-	-	-	-	20						
	188	} -	_	-	-	-	-	-	9						-
h child	100														
h child h child and over	155		-	-	-	-	-	-	2	18	43	61	30 5		1

See footnotes at end of table.



Table 7. Live births by age of mother, live-birth order, Hispanic origin of mother, and by race for mothers of non-Hispanic origin: United States, 2001 —Con.

[Live-birth order refers to number of children born alive to mother. Includes births with stated origin of mother only)

							Α	ge of moth	er						
Live-birth order and	All	1 landon			15-19	years									
origin of mother	ages	Under 15 years	Total	15 years	16 years	17 years	18 years	19 years	20-24 years	25-29 years	30-34 years	35-39 years	40-44 years	45-49 years	50-54 years
Non-Hispanic															
Total 1	3,149,572	5,184	313,448	13,113	29,933	54,336	89,357	126,709	757,692	824,186	786,198	380,511	78,046	4,096	211
1st child	1,272,906	5,083	249,213	12,631	27,602	47,244	71 205	90.531	354.583	314.387	241,264	89.833	17,427	1.052	64
2d child	1,041,223	84	53,416	433	2,119	6,343	15.458	29,063	257.558	283,276	293,636	129.021	23,131	1.044	57
3d child	511,552	3	8,645	11	127	550	2,153	5,804	103,716	141,698	152,820	87,675	16,273	683	39
4th child	191,748	1	1,149	-	7	41	247	854	30,063	53,439	57,795	39,631	9,210	433	27
5th child	68,473	-	126	3	-	2	29	92	7,437	18.597	21,171	16,276	4,591	262	13
6th child	27,780	-	14	-	-	-	4	10	1,748	6,683	9,171	7,452	2,565	142	5
7th child	12,712	-	4	-	1	-	-	3	397	2,453	4,285	3.987	1,478	108	
8th child and over	14,290	-	1	-	-	-	_	1	125	1,304	3,891	5.521	3.093	350	5
Not stated	8,888	13	880	35	77	156	261	351	2,065	2,349	2,165	1,115	278	22	Ĭ
White	2,326,578	1,581	190,161	5,765	15,538	31,409	55,409	82,040	523,027	622,361	625,435	300,007	60,614	3,224	168
1st child	947,986	1,546	156,628	5,615	14,717	28,281	46,156	61,859	259,434	247,834	195,157	72.390	14.077	869	51
2d child	791,301	30	28,965	135	747	2,845	8,191	17,047	180,270	221,033	239,197	102,629	18,257	872	48
3d child	375,808	2	3,667	1	35	187	822	2,622	63,605	102,998	122,053	70,288	12,645	521	29
4th child	131,309	1	340	-	-	10	68	262	14,871	34,417	43,486	30,921	6,936	316	21
5th child	42,452	-	30	1	-	1	10	18	2,810	10,111	14,237	11,743	3,312	197	12
6th child	16,209	-	7	-	-	-	3	4	556	3,017	5,541	5,146	1,836	102	4
7th child	7,106	-	1	-	-	-	-	1	99	912	2,359	2,593	1,067	75	-
8th child and over	8,289	-	1	-	-	-	-	1	48	408	1,809	3,489	2,278	254	2
Not stated	6,118	2	522	13	39	85	159	226	1,334	1,631	1,596	808	206	18	1
Black	589,917	3,401	108,252	6,735	12,879	20,293	29,794	38,551	194,391	133,491	91,710	47,494	10,691	473	14
1st child	220,101	3,341	80,779	6,426	11,499	16,687	21,805	24,362	73,628	32,159	19,764	8,581	1,762	85	2
2d child	173,273	48	21,815	275	1,254	3,187	6,510	10,589	65,374	41,663	28,157	13,451	2,671	91	3
3d child	105,184	1	4,520	10	87	329	1,214	2,880	35,450	30,861	21,021	10,998	2,250	80	Š
4th child	49,105	-	744	-	5	29	167	543	13,722	15,918	10,773	6,297	1,575	73	3
5th child	21,540	-	89	2	-	1	18	68	4,247	7,213	5,497	3,489	958	47	-
6th child	9,500	-	6	-	-	-	1	5	1,091	3,108	2,918	1,793	557	26	1
7th child	4,549	-	3	-	1	-	-	2	268	1,333	1,511	1,113	300	21	:
8th child and over	4,696	-	-	-	-	-	-	-	69	762	1,685	1,561	570	47	- 2
Not stated	1,969	11	296	22	33	60	79	102	542	474	384	211	48	3	

NOTE: Race and Hispanic origin are reported separately on birth certificates. Persons of Hispanic origin may be of any race. In this table Hispanic women are classified only by place of origin; non-Hispanic women are classified by race. See Technical notes.



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Quantity zero.
Includes races other than white and black.

Table 8. Fertility rates and birth rates by age of mother, live-birth order, Hispanic origin of mother, and by race for mothers of non-Hispanic origin: United States, 2001

[Fertility rates are computed by relating total births, regardless of age of mother, to women aged 15-44 years. Birth rates are live births per 1,000 women in specified age and racial group. Live-birth order refers to number of children born alive to mother. Figures for live-birth order not stated are distributed]

						Age of	mother		_		
Live-birth order and	15-44	10.14		15-19 years		20-24	25-29	30-34	35-39	40-44	45-49
origin of mother	years	10-14 years	Total	15-17 years	18-19 years	years	years	years	years	years	years 1
Hispanic											
Total	107.6	1.7	92.5	57.0	143.5	186.0	174.9	113.8	51.5	11.9	0.7
1st child	39.7	1.7	70.7	49.7	100.8	80.5	45.9	21.6	7.6	1.5	0.1
2d child	33.0	0.0	18.4	6.6	35.2	67.0	60.5	33.7	12.4	2.2	0.1
	20.3	•	3.0	0.6	6.6	28.0	42.6	31.1	13.5	2.6	0.1
3d child			0.4	0.0	0.9	8.0	17.4	16.4	8.8	2.1	0.1
4th child	8.9			0.0	0.9	1.9	5.7	6.6	4.6	1.4	0.1
5th child	3.4	_	0.0		0.1					1.3	0.1
6th and 7th child	1.9	•				0.5	2.4	3.7	3.4		
8th child and over	0.5	•	•	•	•	0.0	0.3	0.7	1,1	0.7	0.1
Non-Hispanic ²											
Total ³	60.8	0.6	37.9	19.9	64.0	96.5	111.9	92.3	39.9	7.6	0.5
1st child	24.6	0.6	30.2	17.9	48.0	45.3	42.8	28.4	9.4	1.7	0.1
2d child	20.1	0.0	6.5	1.8	13.2	32.9	38.5	34.6	13.5	2.3	0.1
3d child	9.9	•	1.1	0.1	2.4	13.3	19.3	18.0	9.2	1.6	0.1
	3.7	•	0.1	0.0	0.3	3.8	7.3	6.8	4.2	0.9	0.1
4th child				0.0		1.0		2.5	1.7	0.4	0.0
5th child	1.3	_	0.0		0.0		2.5				0.0
6th and 7th child	8.0	•		•		0.3	1.2	1.6	1.2	0.4	
8th child and over	0.3	•	•	•	•	0.0	0.2	0.5	0.6	0.3	0.0
White	57.6	0.3	30.0	14.1	52.9	86.8	111.3	94.7	39.8	7.3	0.4
1st child	23.5	0.2	24.7	13.0	41.7	43.2	44.4	29.6	9.6	1.7	0.1
2d child	19.6	0.0	4.6	1.0	9.8	30.0	39.6	36.3	13.6	2.2	0.1
3d child	9.3	•	0.6	0.1	1.3	10.6	18.5	18.5	9.3	1.5	0.1
4th child	3.3	•	0.1	•	0.1	2.5	6.2	6.6	4.1	0.8	0.0
	1.1		0.0	•	0.0	. 0.5	1.8	2.2	1.6	0.4	0.0
5th child			0.0		0.0	0.3	0.7	1.2	1.0	0.4	0.0
6th and 7th child8th child and over	0.6 0.2	•	•	•	•	0.0	0.7	0.3	0.5	0.3	0.0
	71.6	2.3	75.6	47.2	116.8	142.9	107.3	69.0	33.1	7.5	0.4
Black	/ 1.0	۷.3	75.0	41.2	110.0	172.3	107.0				
1st child	26.8	2.2	56.6	41.0	79.1	54.3	26.0	15.0	6.0	1.2	0.1
2d child	21.1	0.0	15.3	5.6	29.3	48.2	33.6	21.3	9.4	1.9	0.1
3d child	12.8	•	3.2	0.5	7.0	26.1	24.9	15.9	7.7	1.6	0.1
	6.0	•	0.5	0.0	1,2	10.1	12.8	8.1	4.4	1.1	0.1
4th child			0.5	0.0	0.1	3.1	5.8	4.2	2.4	0.7	0.0
5th child	2.6		U. I		U, I			3.3	2.0	0.6	0.0
6th and 7th child	1.7			•	•	1.0	3.6		2.0 1.1	0.6	0.0
8th child and over	0.6	•	•	-	•	0.1	0.6	1.3	1.1	0.4	0.0

Figure does not meet standards of reliability or precision; based on fewer than 20 births in the numeretor.

NOTES: Race and Hispanic origin are reported separately on birth certificates. Persons of Hispanic origin may be of any race. In this table only non-Hispanic women are classified by race. Denominators for population-based rates are derived from the 1990 U.S.Census. As a result, rates are generally larger than would be the case if 2000-based estimates were used. The magnitude of the overestimate will vary by population subgroup; overestimates are likely greatest for those of Hispanic origin; see Technical notes.



^{0.0} Quantity more than zero but less than 0.05.
1 Birth rates computed by relating births to women aged 45-54 years to women aged 45-49 years.

² Includes origin not stated.
3 Includes races other than white and black.

Table 9. Total fertility rates, fertility rates, and birth rates by age and Hispanic origin of mother and by race for mothers of non-Hispanic origin: United States, 1989-2001

[Fertility rates are live births per 1,000 women aged 15-44 years in specified racial group and birth rates are live births per 1,000 women in specified age and racial group. Population enumerated as of April 1 for 1990, and estimated as of July 1 for all other years. Total fertility rates are sums of birth rates for 5-year age groups multiplied by 5]

						_	Age of	mother				_
Year and origin/race	Total fertility	Fertility rate	10-14		15-19 years		20-24	25-29	30-34	35-39	40-44	45-49
of mother	rate	12.0	years	Total	15-17 years	18-19 years	years	years	years	years	years	years ²
All origins					_						_	_
2001	. 2,114.5	66.9	0.8	45.8	25.2	75.5	109.9	121.3	95.2	41.3	8.1	0.5
.000		67.5	0.9	48.5	27.4	79.2	112.3	121.4	94.1	40.4	7.9	0.5
999		65.9	0.9	49.6	28.7	80.3	111.0	117.8	89.6	38.3	7.4	0.4
998		65.6	1.0	51.1	30.4	82.0	111.2	115.9	87.4	37.4	7.3	0.4
997 996		65.0 65.3	1.1 1.2	52.3 54.4	32.1 33.8	83.6	110.4	113.8	85.3	36.1	7.1	0.4
995		65.6	1.3	56.8	36.0	86.0 89.1	110.4 109.8	113.1 112.2	83.9 82.5	35.3 34.3	6.8 6.6	0.3 0.3
994		66.7	1.4	58.9	37.6	91.5	111.1	113.9	81.5	33.7	6.4	0.3
993		67.6	1.4	59.6	37.8	92.1	112.6	115.5	80.8	32.9	6.1	0.3
992	2,065.0	68.9	1.4	60.7	37.8	94.5	114.6	117.4	80.2	32.5	5.9	0.3
991		69.6	1.4	62.1	38.7	94.4	115.7	118.2	79.5	32.0	5.5	0.2
990		70.9	1.4	59.9	37.5	88.6	116.5	120.2	80.8	31.7	5.5	0.2
989	. 2,014.0	69.2	1.4	57.3	36.4	84.2	113.8	117.6	77.4	29.9	5.2	0.2
Hispanic												
tal 001	3.165.0	107.6	1.7	92.5	57.0	143.5	186.0	174.9	113.8	51.5	11.9	0.7
00		105.9	1.9	94.4	60.0	143.6	184.6	174.9	109.0	48.7	11.6	0.7
99		102.0	2.0	93.4	61.3	139.4	178.7	163.1	102.2	46.3	10.7	0.6
98		101.1	2.1	93.6	62.3	140.1	178.4	160.2	98.9	44.9	10.8	0.6
97	2,999.5	102.8	2.3	97.4	66.3	144.3	184.2	161.7	97.9	45.0	10.8	0.6
96		104.9	2.6	101.8	69.0	151.1	189.5	161.0	98.1	45.1	10.8	0.6
95		105.0	2.7	106.7	72.9	157.9	188.5	153.8	95.9	44.9	10.8	0.6
)94		105.6	2.7	107.7	74.0	158.0	188.2	153.2	95.4	44.3	10.7	0.6
93	3,020.5	106.9	2.7	106.8	71.7	159.1	188.3	154.0	96.4	44.7	10.6	0.6
92 ³	3,043.0	108.6	2.6	107.1	71.4	159.7	190.6	154.4	96.8	45.6	10.9	0.6
990 4	3,002.5 2,959.5	108.1	2.4	106.7	70.6	158.5	186.3	152.8	96.1	44.9	10.7	0.6
990 ⁴ 989 ⁵		107.7 104.9	2.4 2.3	100.3 100.8	65.9 	147.7 	181.0 184.4	153.0 146.6	98.3 92.1	45.3 43.5	10.9 10.4	0.7 0.6
xican	·											2.0
001												
000		115.1	2.1	101.7	65.0	154.5	197.9	175.4	112.4	50.7	12.2	0.7
)99		111.6	2.3	101.5	65.4	156.8	194.2	169.8	107.9	49.1	10.8	0.7
98		112.1	2.2	102.7	67.0	159.1	197.6	173.5	103.7	48.4	10.9	0.6
197 196		116.6	2.5	112.4	77.3	165.1	204.9	176.3	104.2	49.0	11.6	0.6
995		119.3 117.0	2.8 2.8	120.7 124.6	83.4	174.3 185.3	206.3	176.9	103.7	47.6	12.0	0.7
94		115.4	2.8	116.2	84.4 78.0	175.0	208.9 202.6	160.5 165.2	98.5 96.9	46.8	11.9 11.7	0.7 0.7
993		114.8	2.6	108.7	70.6 71.6	164.9	196.6	168.2	100.5	46.2 46.1	11.7	0.7
1923	3,196.5	116.0	2.5	108.8			202.3	166.3	99.1	47.7	11.8	0.8
391 3	3.317.5	121.6	2.6	117.3	75.9	178.4	209.9	168.2	103.3	49.1	12.3	0.8
90 4	3,214.0	118.9	2.5	108.0	69.7	162.2	200.3	165.3	104.4	49.1	12.4	0.8
895		106.6	2.0	94.5			184.3	153.7	96.1	41.0	11.1	0.6
erto Rican												
01 00		84.3	1.9	97.0	63.2	143.1	181.3	121.3	 74.2	34.1	6.7	0.2
99		77.7	1.7	79.7	53.2	117.1	166.0	127.9	64.3	28.4	7.3	0.3 0.3
98		75.5	1.9	81.2	55.1	120.7	164.2	104.4	67.6	26.7	7.3 7.2	0.3
97		71.7	1.8	74.9	48.9	120.0	154.0	109.3	59.1	27.0	6.2	0.5
96		71.3	2.1	82.3	52.2	143.2	148.8	109.4	58.3	25.9	5.6	*
95	2,245.5	75.7	3.0	89.0	61.2	139.2	151.5	107.2	64.8	27.7	5.6	0.3
94		81.9	3.2	106.0	72.8	168.4	181.0	111.7	62.3	28.0	5.6	0.2
93	2,523.5	82.5	3.1	110.0	73.4	181.0	193.1	108.4	56.3	27.1	6.2	0.5
92 3	2,644.5	89.9	3.5	110.4			204.9	106.6	66.7	30.0	6.5	0.3
91 3	2,276.0	80.9	2.5	102.7	75.2	143.0	149.4	107.5	61.4	25.7	5.7	0.3
90 ⁴ 89 ⁵	2,301.0 2.421.0	82.9 86.6	2.9 3.8	101.6 112.7	71.6 	141.6	150.1 171.0	109.9 98.0	62.8 65.2	26.2 26.9	6.2 6.3	0.5 0.3
ean	2,421.0	50.0	0.0	112.7			171.0	30.0	03.2	20.5	0.3	0.5
01												
00	1,871.0	57.3	*	25.8	16.5	42.2	74.2	138.9	84.1	42.0	8.5	*
99		51.2	0.7	27.1	15.7	46.2	71.8	92.8	72.9	39.6	7.4	*
98		50.1	0.8	24.2	15.6	38.8	85.6	95.2	64.5	34.2	7.1	*
97		57.4	1.0	38.3	25.3	53.4	82.7	123.5	75.7	35.1	6.3	0.3
96		58.9	0.9	34.0	19.8	54.5	82.5	110.7	85.9	34.3	6.4	*
95		55.1	*	29.2	16.6	51.2	77.0	110.6	88.0	29.8	6.0	•
94		55.9 55.5	0.6	40.2	23.1	77.4	72.5	98.4	87.6	31.3	5.5	*
93 92 ³	1,632.5	55.5		33.0	20.4	49.7	68.9	102.0	86.9	31.0	4.7	*
913	1,485.5 1,385.5	50.3	1.0	26.3	17.5	41.2	51.6	98.4	86.2	28.9	4.7	0.0
90 4	1,385.5	49.1 52.6		27.7 30.3	17.5	41.3 46.1	61.2 64.6	88.8 95.4	68.2 67.6	26.7	4.0	
89 5	1,459.5	52.6	0.5	30.3	18.2	46.1	64.6	95.4	67.6 73.7	28.2	4.9	0.3
	1,479.0	49.8	0.5	25.1			64.2	101.8	73.7	27.2	3.0	U.



Table 9. Total fertility rates, fertility rates, and birth rates by age and Hispanic origin of mother and by race for mothers of non-Hispanic origin: United States, 1989-2001 -- Con.

[Fertility rates are live births per 1,000 women aged 15-44 years in specified racial group and birth rates are live births per 1,000 women in specified age and racial group. Population enumerated as of April 1 for 1990, and estimated as of July 1 for all other years. Total fertility rates are sums of birth rates for 5-year age groups multiplied by 5]

							Age of	mother				
Year and origin/race	Total fertilty	Fertility			15-19 years							
of mother	rate	rate 1	10-14 years	Total	15-17 years	18-19 years	20-24 years	25-29 years	30-34 years	35-39 years	40-44 years	45-49 years ²
Other Hispanic ⁶												
2001												
2000	2,969.5	94.3	1.3	76.9	47.0	118.0	154.5	180.2	117.7	50.2	12.4	0.7
1999	2,836.5	92.6	1.6	81.3	57.1	108.2	148.0	166.2	108.8	48.3	12.4	0.7
1998	2,719.0	90.2	1.9	80.0	56.7	106.9	137.4	157.2	106.9	46.9	12.9	0.6
1997	2,653.5	87.6	2.0	72.1	48.3	106.8	146.4	147.9	104.4	45.4	11.8	0.7
1996	2,762.0	90.2	2.4	69.8	46.6	103.1	166.5	146.3	105.3	50.4	11.0	0.7 0.6
1995	2,834.0	94.5	2.4	77.5	54.8	107.8	158.3	161.8	103.7	50.9	11.6 11.9	0.6
1994	2,855.5	97.7	2.6	87.9	66.4	112.4	162.0	147.4 147.1	109.3 110.4	49.4 52.4	12.5	0.5
1993	3,038.5	105.0	2.7 2.5	106.9	78.2 	141.7	175.2 172.9	157.8	106.6	50.3	12.5	0.5
1992 3	3,076.0	107.0		112.1		128.8	161.1	150.6	101.5	48.2	11.2	0.6
1991 3	2,817.0	99.3	2.1 2.1	88.1 86.0	58.9 57.2	123.8	162.9	155.8	106.9	49.4	11.6	0.7
1990 4	2,877.0	102.7	1.7		57.2	123.0	159.2	150.4	85.1	60.3	12.7	0.8
1989 ⁵	2,683.0	95.8	1.7	66.4			135.2	150.4	. 00.1	00.0	12.7	0.0
Non-Hispanic ⁷ Fotal ⁸												
2001	1,936.0	60.8	0.6	37.9	19.9	64.0	96.5	111.9	92.3	39.9	7.6	0.5
2000	1,968.0	61.8	0.7	40.9	22.1	68.4	99.7	113.2	91.9	39.3	7.5	0.4
1999	1,929.5	60.7	0.8	42.5	23.5	70.6	99.4	110.6	87.8	37.3	7.1	0.4
1998	1,919.5	60.7	0.8	44.3	25.4	72.8	99.9	109.3	85.7	36.5	7.0	0.4
1997	1,888.5	60.1	0.9	45.5	27.0	74.3	98.6	107.0	83.5	35.1	6.7	0.4
1996	1,881.0	60.3	1.0	47.3	28.7	76.2	98.4	106.5	82.0	34.2	6.5	0.
1995	1,881.0	60.8	1.1	49.6	30.7	79.0	98.5	106.4	80.9	33.2	6.2	0.
1994	1,905.0	62.0	1.2	52.0	32.5	81.8	100.4	108.6	79.9	32.6	6.0	0.0
1993	1,903.5	63.1	1.2	52.9	33.1	82.6	102.5	110.4	79.0	31.7	5.7	0.3
10023	1,941.0	64.4	1.2	54.4	33.2	85.5	104.7	112.7	78.4	31.2	5.4	0.3
1992 ³	1,959.5	65.4	1.3	56.1	34.4	86.1	106.6	114.0	77.8	30.8	5.1	0.2
1990 4	1,979.5	67.1	1.3	54.8	33.8	81.4	108.1	116.5	79.2	30.7	5.1	0.2
1989 5	1,921.0	65.7	1.3	53.4			107.8	113.4	74.7	28.6	4.8	0.2
Vhite												
2001	1,853.0	57.6	0.3	30.0	14.1	52.9	86.8	111.3	94.7	39.8	7.3	0.4
2000	1,879.0	58.5	0.3	32.5	15.8	56.8	89.6	112.8	94.0	39.0	7.2	0.4
1999	1.850.0	57.8	0.3	34.0	17.1	58.9	89.9	111.0	90.3	37.3	6.8	0.4
1998	1,837.0	57.7	0.3	35.2	18.4	60.6	90.7	109.7	88.0	36.4	6.7	0.4
1997	1,801.0	57.0	0.4	36.0	19.4	61.9	89.8	107.2	85.2	34.9	6.4	0.
1996	1.795.5	57.3	0.4	37.6	20.6	63.7	90.1	107.0	83.5	34.0	6.2	0.
1995	1.786.5	57.6	0.4	39.3	22.0	66.1	90.0	106.5	82.0	32.9	5.9	0.
1994	1,792.0	58.3	0.5	40.4	22.8	67.4	90.9	107.9	80.7	32.1	5.7	0.
1993	1,792.5	59.0	0.5	40.7	22.7	67.7	92.1	109.2	79.4	31.1	5.3	0.
1992 3	1,810.5	60.2	0.5	41.7	22.7	69.8	93.9	111.5	78.7	30.5	5.1	Ó.
1991 ³	1,826.5	61.0	0.5	43.4	23.6	70.5	95.7	112.7	77.9	30.2	4.7	0.
1990 4	1,850.5	62.8	0.5	42.5	23.2	66.6	97.5	115.3	79.4	30.0	4.7	0.
1989 5	1,770.0	60.5	0.4	39.9			94.7	111.7	75.0	27.8	4.3	0.
Black												
2001	2,190.5	71.6	2.3	75.6	47.2	116.8	142.9	107.3	69.0	33.1	7.5	0.
2000	2,256.0	73.7	2.5	81.9	52.0	125.1	148.6	108.2	69.3	33.0	7.3	0.
1999	2,212.5	72.2	2.7	83.7	53.7	126.8	146.3	104.9	66.3	31.5	6.7	0
1998	2,235.5	73.0	3.0	88.2	58.8	130.9	146.4	104.6	66.6	31.2	6.8	0
1997	2,210.5	72.4	3.4	90.8	62.6	134.0	143.0	101.9	65.8	30.3	6.6	0.
1996	2.204.0	72.5	3.8	94.2	66.6	136.6	140.9	100.8	64.9	29.7	6.2	0.
1995	2,245.0	74.5	4.3	99.3	72.1	141.9	141.7	102.0	65.9	29.4	6.1	0.
		79.0	4.7	107.7	78.6	152.9	150.3	107.0	67.5	29.5	6.0	. 0
1993		82.7	4.7	112.2	82.5	156.7	157.4	111.5	69.0	29.8	6.0	0
1992 3		85.5	4.8	116.0	83.9	162.9	163.0	114.6	69.1	29.4	5.7	0.
1991 3		87.6	4.9	118.9	86.7	163.1	166.1	116.3	69.3	28.9	5.6	0.
1990 4	2,547.5	89.0	5.0	116.2	84.9	157.5	165.1	118.4	70.2	28.7	5.6	0.
1989 5		84.8	5.2	111.9			156.3	113.8	65.7	26.3	5.3	Ō.
	_,	U-1.5	0.2									-

NOTES: Race and Hispanic origin are reported separately on birth certificates. Persons of Hispanic origin may be of any race. In this table Hispanic women are classified only by place of origin; non-Hispanic women are classified by race; see Technical notes. Denominators for population-based rates for 1991-2001 are derived from the 1990 U.S.Census. As a result, rates for more recent years are generally larger than would be the case if 2000-based estimates were used. The magnitude of the overestimate will vary by population subgroup; overestimates are likely greatest for those ""ispanic origin. Rates for 2001 for Hispanic subgroups are not shown because population data for these groups, based on the 1990 Census, are not reliable; see Technical notes.



Data not available.
Figure does not meet standards of reliability or precision; based on fewer than 20 births in the numerator.

O. Quantity more than zero but less that 0.05.
Fertility rates computed by relating total births, regardless of age of mother, to women 15-44 years.
Beginning 1997, rates computed by relating births to women aged 45-54 years to women aged 45-49 years.
Scludes data for New Hampshire, which did not report Hispanic origin.
Excludes data for New Hampshire and Oklahoma, which did not report Hispanic origin.

Excludes data for Louisiana, New Hampshire, and Oklahoma, which did not report Hispanic origin.

Includes Central and South American and other and unknown Hispanic.

⁷ Includes origin not stated. 8 Includes races other than white and black.

Table 10. Number of births, birth rates, fertility rates, total fertility rates, and birth rates for teenagers 15-19 years by age of mother: United States, each State and territory, 2001

[By place of residence. Birth rates are live births per 1,000 estimated population in each area; fertility rates are live births per 1,000 women aged 15-44 years estimated in each area; total fertility rates are sums of birth rates for 5-year age groups multiplied by 5; birth rates by age are live births per 1,000 women in specified age group estimated in each area]

				_		Teenage birth rat	е
				Total		15-19 years	·
State -	Number of births	Birth rate	Fertility rate	fertility rate	Total	15-17 years	18-19 year
United States 1	4,025,933	. 14.5	66.9	2,114.5	45.8	25.2	75.5
Nabama	60,454	13.7	62.4	1,941,5	. 57.0	00 F	04.0
laska	10,003	16.0	75.5	2.462.5	57.8	33.5	91.8
rizona	85.597			-,	37.7 65.0	18.5	64.8
ırkansas		17.1	84.0 67.5	2,643.0 2.090.0	65.3	38.1	106.6
	37,010 507,750	14.3	67.5	_,	64.2	33.0	109.1
alifornia	527,759	15.5	69.5	2,151.0	45.2	26.0	70.6
olorado	67,007	15.9	74.6	2,398.0	45.7	25.1	75.5
onnecticut	42,648	12.9	61.0	1,942.0	29.4	15.4	52.4
elaware	10,749	13.9	61.5	1,958.5	48.2	29.2	74.0
strict of Columbia	7,625	14.8	63.9	1,983.0	74.9	52.2	98.1
lorida	205,793	13.2	67.0	2,165.5	49.3	26.9	83.7
eorgia	133,526	16.5	71.1	2,228.0	60.9	34.1	100.3
awaii	17,072	14.5	71.4	2,311.0	42.5	22.4	66.5
laho	20,688	16.0	75.4	2,303.5	40.6	19.3	69.4
inois	184,064	15.0	69.5	2,189.5	47.3	26.5	78.5
diana	86,459	14.4	66.1	2,089.5	47.2	23.8	81.7
wa	37,619	13.0	63.4	2,035.0	33.0	16.2	58.2
ansas	38,869	14.5	68.1	2,167.5	43.0	22.4	72.5
entucky	54.658	13.6	62.3	1,949.0	51.4	26.0	87.2
ouisiana	65,352	14.9	67.2	2,065.5	57.8	33.4	90.8
aine	13,759	10.9	50.0	1,629.5	27.1	11.7	51.3
aryland	73,218	13.9	60.9	1,948.0	38.2	21.6	63.3
assachusetts	81,077	13.0	59.1	1,814.5	25.0	13.8	41.3
ichigan	133,427	13.4	61.0	1,938.0	37.2	19.5	64.4
innesota	67,562	13.8	63.5	2,061.0	27.9		
ississippi	42,282	15.1	63.5 67.6			14.0	48.8
issouri	75.464	13.6		2,045.5	66.7	39.6	104.9
ontana	10,970	12.3	63.2	2,022.0	46.1	23.3	80.2
	24.820		61.8	2,003.5	35.6	18.0	61.8
ebraska		14.8	69.7	2,229.0	36.0	19.6	59.1
evadaew Hampshire	31,382 14,656	16.1 11.9	79.4 52.0	2,541.5 1,660.5	56.4 21.0	30.5 9.8	97.9 38.9
		44.0		•			
ew Jersey	115,795	14.0	66.3	2,115.5	29.9	16.1	52.0
ew Mexico	27,128	15.4	72.8	2,311.0	64.5	39.3	102.1
ew York	254,026	13.9	64.4	2,012.5	34.1	18.8	56.2
orth Carolina	118,185	15.1	70.4	2,239.0	55.2	29.9	94.7
orth Dakota	7,629	12.2	59.3	1,898.5	27.2	11.9	49.2
hio	151,570	13.4	61.9	1,958.5	42.2	21,9	72.2
klahoma	50,118	14.8	70.8	2,204.5	58.0	30.7	96.8
regon	45,322	13.5	65.3	2,055.0	40.9	20.9	70.8
ennsylvania	143,495	12.0	57.7	1,857.0	33.6	18.0	57.1
hode Island	12,713	12.7	59.2	1,869.5	37.4	21.5	60.9
outh Carolina	55,756	14.1	62.8	1,959.0	57.4	33.2	89.8
outh Dakota	10,483	14.1	67.7	2,174.5	37.1	18.7	62.8
ennessee	78,340	14.0	64.3	2,037.5	58.4	30.9	99.0
exas	365,410	17.6	79.9	2,493.5	66.5	40.4	103.0
ah	47,959	21.8	95.0	2,755.5	38.2	19.3	61.8
ermont	6,366	10.6	47.9	1,547.0	23.9	10.3	44.3
rginia	98,864	14.0	60.9	1,894.5	39.4	21,1	64.1
ashington	79,570	13.6	61.9	1,963.0	34.9	17.7	59.8
est Virginia	20,428	11.4	55.6	1,711.5	45.5	22.6	78.2
sconsin	69,072	12.9	60.2	1,940.0	33.4	17.8	56.7
yoming	6,115	12.7	62.0	1,926.5	38.6	18.2	68.8
uerto Rico	55,866	14.2	61.2	1,761.5	68.0	46.1	100.2
rgin Islands	1,669	13.7	63.4	1,922.0	51.5	31.8	82.5
uam	3,564	22.6	113.7	3,472.5	70.5	39.8	118.6
merican Samoa	1,655	24.7	113.9	3,497.0	38.9	10.7	83.7

¹ Excludes data for the territories.

NOTES: Denominators for population-based rates are derived from the 1990 U.S.Census. As a result, rates are generally larger than would be the case if 2000-based estimates were used. The magnitude of the overestimate will vary by population subgroup; overestimates are likely greatest for those of Hispanic origin; see Technical notes.



Table 11. Live births by race of mother: United States, each State and territory, 2001

[By place of residence]

			Number		
State	All races	White	Black	American Indian 1	Asian or Pacific Islander
United States ²	4,025,933	3,177,626	606,156	41,872	200,279
Nabama	60,454	40,604	19,199	182	469
Naska	10,003	6,383	441	2,542	637
Arizona	85,597	75,219	2,762	5,498	2,118
Arkansas	37,010	28,836	7,435	244	499
California	527,759	428,238	33,774	2,926	62,82
colorado	67,007	61,056	2,971	651	2,32
Connecticut	42,648	35,612	5,134	164	1,73
elaware	10,749	7,668	2,710	26 9	34 18
istrict of Columbialorida	7,625 205,793	2,570 152,207	. 4,860 47,186	1,230	5,17
	·			·	
eorgia	133,526	85,648	43,727	275	3,87
lawaii	17,072	3,815	527	183	12,54
laho	20,688	19,944	86 33,203	360 261	29 8,12
linois	184,064 86,459	142,474 75,393	9,649	168	1,24
ndiana owa	37,619	75,333 35,324	1,266	232	79
Kansas	38,869	34,622	2,781	458	1,00
Kentucky	54,658	48,968	4,930	102	65
ouisiana	65,352	36,899	27,058	380	1,01
Maine	13,759	13,280	153	110	21
laryland	73,218	45,068	24,252	212	3,68
Assachusetts	81,077	67,786	8,205	144	4,94
lichigan	133,427	105,235	23,613	641	3,93
/linnesota	67,562	57,982	4,767	1,312	3,50
Mississippi	42,282	22,808	18,817	265	39
Missouri	75,464	62,504	11,134	342	1,48
Montana	10,970	9,442	42	1,369	11
lebraska	24,820	22,496	1,373	433	51
levada	31,382	26,284	2,518	482	2,09
lew Hampshire	14,656	13,954	208	40	45
lew Jersey	115,795	85,110	20,583	167	9,93
lew Mexico	27,128	22,810	511	3,404	. 40
lew York	254,026	182,191	52,190	710	18,93
North Carolina	118,185	85,315	28,393	1,689	2,78
lorth Dakota	7,629	6,625	102	806	
Ohio	151,570	125,507	22,994	313	2,75
Oklahoma	50,118	39,218	4,612	5,258	1,00 2,30
Oregon	45,322 143,405	41,284 119,015	944° 20,238	792 356	3,88
Pennsylvania Rhode Island	143,495 12,713	10,960	1,112	. 127	51
	55.750	05.000	10.007	150	0.
South Carolina	55,756 10,483	35,866 8,475	18,927 101	153 1,776	8 [.] 10
South Dakota	78,340	60,216	16,603	181	1,34
ennessee	76,340 365,410	311.979	40,750	854	11,82
Itah	47,959	45,440	342	742	1,43
/ermont	6,366	6,237	31	7	','
/irginia	98,884	70,946	22,272	120	5,54
Vashington	79,570	67,437	3,334	1,897	6,90
Vest Virginia	20,428	19,576	704	19	12
Visconsin	69,072	59,383	6,567	989	2,1
Nyoming	6,115	5,717	65	271	•
Puerto Rico	55,866	51,285	4,564		
/irgin Islands	1,669	367	1,230	72	
Guam	3,564	234	37	4	3,28
American Samoa	1,655	3	-	-	1,6
Northern Marianas	1,449	19	-	-	1,43

NOTE: Race and Hispanic origin are reported separately on birth certificates. In this table all women (including Hispanic women) are classified only according to their race; see Technical notes.



⁻⁻⁻ Data not available.
- Quantity zero.
1 Includes births to Aleuts and Eskimos.
2 Excludes data for the territories.

Table 12. Live births by Hispanic origin of mother and by race for mothers of non-Hispanic origin: United States, each State and territory, 2001

[By place of residence]

						Origin of mot	her				
_	All	_		Hispa	anic			N	on-Hispanic		Not
State	origins	Total	Mexican	Puerto Rican	Cuban	Central and South American	Other and unknown Hispanic	Total ¹	White	Black	stated
United States ²	4,025,933	851,851	611,000	57,568	14,017	121,365	47,901	3,149,572	2,326,578	589,917	24,510
Alabama	60,454	2,254	1,741	72	19	137	285	58,157	38,342	19,183	43
Naska	10,003	652	299	66	9	57	221	8,480	5,567	388	871
Arizona	85,597	36,183	34,451	260	59	699	714	48,317	38,878	2,560	1,097
Arkansas	37,010	2,649	2,229	49	10	332	29	34,229	26,082	7,422	132
California	527,759	261,071	228,648	2,051	769	25,134	4,469	263,321	167,025	32,551	3,367
Colorado	67,007	19,730	15,359	289	64	671	3,347	47,271	41,764	2,830	
Connecticut	42,648	6,913	773	4,051	68	1,764	257	35,220	28,434	4,929	515
Delaware	10,749	1,083	566	297	5	207	_8	9,650	6,598	2,684	16
District of Columbia	7,625	. 895	91	12	7	715	70	6,687	1,687	4,805	43
Florida	205,793	49,629	12,097	8,625	9,778	17,868	1,261	155,846	104,068	45,954	318
Georgia	133,526	15,699	12,280	568	162	2,596	93	116,254	69,306	43,076	1,573
ławaii	17,072	2,237	421	678	17	82	1,039	14,812	3,119	495	23 394
daho	20,688	2,753	2,307	22	. 5	75	344	17,541	16,855	78 32,995	86
llinois	184,064	40,973	34,909	2,695	186	1,542	1,641	143,005	101,660	9,575	380
ndiana	86,459	5,898	5,153	291	20	360	74	80,181	69,242	1,237	95
owa	37,619	2,232	1,782	44	6	299	101	35,292 33,535	33,068 29,363	2,747	428
Cansas	38,869	4,906	4,033	87	29	279	478	53,535 53,126	47,485	4,905	23
Centucky	54,658	1,509	1,159	92	56	177	25 643	63,745	35,383	27,010	50
ouisiana	65,352	1,557	618	108	61	127		13,535	13,074	142	51
Maine	13,759	173	27	24	5	41	76	13,535	13,074	142	
Maryland	73,218	. 5,301	999	347	56	3,022	877	67,617	39,798	24,046 6,552	300 626
Massachusetts	81,077	9,444	440	4,546	71	4,118	269 386	71,007 124,166	59,405 96,346	23,399	1,926
Michigan	133,427	7,335	5,960	423	68	498 549	332	62,541	53,141	4,685	478
Minnesota	67,562	4,543	3,522	111	29 9	60	234	41,531	22,073	18,809	32
Aississippi	42,282	719 2,981	401 2,238	15 90	33	390	230	72,395	59,513	11,084	88
dissouri	75,464 10,970	377	172	12	4	18	171	10,280	8,798	38	313
Montana	24,820	2,946	2,336	32	12	383	183	21,342	19,056	1,355	532
Nebraska Nevada	31,382	10,855	8,943	229	192	976	515	20,181	15,323	2,414	346
New Hampshire	14,656	509	128	110	7	183	81	13,493	12,849	159	654
New Jersey	115,795	23,497	4.344	6,914	847	11,016	376	91,973	63,266	18,709	325
New Mexico	27,128	14,126	6,448	55	30	190	7,403	12,994	8,776	485	8
New York	254,026	54,544	8,645	13,257	464	24,042	8,136	196,773	130,637	46,709	2,709
North Carolina	118,185	14,539	11,167	685	119	2,465	103	103,554	70,863	28,250	92
North Dakota	7,629	140	90	6	1	· 7	36	7,295	6,299	101	194
Ohio	151,570	4,598	2,455	1,309	52	511	271	146,639	120,869	22,769	333
Oklahoma	50,118	4,942	4,352	117	16	235	222	45,090	34,360	4,574	86
Oregon	45,322	7,902	7,374	77	32	318	101	37,271	33,388	908	149
Pennsylvania	143,495	8,192	1,577	5,044	101	617	853	134,265	110,501	19,615	1,038
Rhode Island	12,713	2,196	149	641	9	1,305	92	9,261	7,676	994	1,256
South Carolina	55,756	2,988	2,072	196	27	455	238	52,698	32,932	18,878	70
South Dakota	10,483	257	169	15	1	47	25	10,215	8,254	97	11
Tennessee	78,340	3,905	2,946	206	38	558	157	74,407	56,363	16,568	28
Texas	365,410	172,354	152,757	1,105	290	9,235	8,967	191,808	139,104	40,221	1,248
Jtah	47,959	6,543	5,147	98	21	638	639	41,146	38,682	325	270
/ermont	6,366	35	8	9	2		6	6,139	6,014	29	192
Virginia	98,884	9,143	2,337	613	76		640	89,494	61,871	22,082	247
Vashington	79,570	12,140	10,330	253	38		887	66,050	54,468	3,219	1,380
West Virginia	20,428	. 83	42	12	• -	9	20	20,291	19,446	698	54
Visconsin	69,072	5,152	4,010	654	35		226	63,913	54,346	6,515	
Wyoming	6,115	569	499	6	2	12	50	5,539	5,161	64	7
Puerto Rico	55,866									4 004	55,866
Virgin Islands	1,669	385	12	295	2		76	1,233	79	1,091	5
Guam	3,564	52	20	20	-	6	6	3,421	209	37	9.
American Samoa	1,655							***			1,655
Northern Marianas	1,449										1,449



Quantity zero.
 Data not available.
 Includes races other than white and black.
 Excludes data for the territories.

NOTE: Race and Hispanic origin are reported separately on birth certificates. Persons of Hispanic origin may be of any race. In this table Hispanic women are classified only by place of origin; non-Hispanic women are classified by race. See Technical notes.

Table 13. Total number of births, rates (birth, fertility, and total fertility), and percent of births with selected demographic characteristics, by detailed race of mother and place of birth of mother: United States, 2001

[Birth rates are live births per 1,000 population. Fertility rates are computed by relating total births, regardless of age of mother, to women aged 15-44 years. Total fertility rates are sums of birth rates for 5-year age groups multiplied by 5]

Characteristic	All	White	Black	American			Asian or Pac	ific Islander		
——————————————————————————————————————	races		Black	Indian ¹	Total	Chinese	Japanese	Hawaiian	Filipino	Other
					Num	ber				
Births	4,025,933	3,177,626	606,156	41,872	200,279	31,401	9,048	6,411	32,468	120,951
					Ra	te				
Birth rate	14.5	13.9	17.0	16.9	17.2	•••	***			***
Fertility rate Total fertility rate	66.9 2,114.5	66.3 2,109.5	69.5 2,123.5	70.8 2,074.5	69.4 2,035.5	•••				•••
Sex ratio ²	1,046	1,047	1,032	1,024	1,067	1,092	1,041	1,000	1,077	1,064
					Perc	ent				
All births										
Births to mothers under 20 years	11.3	10.2	18.9	19.3	4.3	1.0	1.7	16.2	5.1	4.6
4th- and higher-order births	10.8	10.1	15.1	18.8	6.8	2.2	4.2	15.4	7.5	7.6
Births to unmarried mothers Mothers completing 12 years or	33.5	27.7	68.4	59.7	14.9	8.4	9.2	50.6	20.4	13.7
more of school Mothers born in the 50 States and	78.3	78.3	75.1	69.0	89.2	88.1	98.2	84.6	94.0	87.8
DC	77.5	79.1	87.6	94.7	16.8	10.2	40.1	97.6	21.2	11.3
Mothers born in the 50 States and DC		•								
Births to mothers under 20 years	12.2	10.2	20.7	19.9	14.3	3.5	3.6	16.3	12.9	19.5
4th- and higher-order births	10.3	9.2	15.3	19.1	8.0	4.0	5.3	15.3	7.8	6.5
Births to unmarried mothers	34.5	26.2	72.0	61.1	32.9	11.7	16.0	50.8	35.3	33.0
Mothers completing 12 years or				•	02.0		.0.0	30.0	55.5	33.0
more of school	83.4	85.4	74.1	69.3	88.6	96.8	97.3	84.7	90.2	85.3
Mothers born outside the 50 States and DC										
Births to mothers under 20 years	8.2	9.9	5.9	9.2	2.3	0.7	0.4		3.0	2.7
4th- and higher-order births	12.3	13.7	13.4	12.4	6.6	2.0	3.5	18.2	7.4	7.7
Births to unmarried mothers Mothers completing 12 years or	30.0	33.3	42.5	33.7	11.2	7.9	4.6	39.0	16.4	11.2
more of school	60.7	51.0	82.4	65.0	89.4	87.2	98.8	80.0	95.0	88.1

⁻⁻⁻ Data not available.

NOTES: Race and Hispanic origin are reported separately on birth certificates. In this table all women (including Hispanic women) are classified only according to their race. Denominators for population-based rates are derived from the 1990 U.S.Census. As a result, rates are generally larger than would be the case if 2000-based estimates were used. The magnitude of the overestimate will vary by population subgroup; overestimates are likely greatest for those of Hispanic origin; see Technical notes.



Figure does not meet standards of reliability or precision; based on fewer than 20 births in the numerator.

Includes births to Aleuts and Eskimos.

Male live births per 1,000 female live births.

Table 14. Total number of births, rates (birth, fertility, and total fertility), and percent of births with selected demographic characteristics, by Hispanic origin of mother and by race for mothers of non-Hispanic origin and by place of birth of mother: United States, 2001

[Birth rates are live births per 1,000 population. Fertility rates are computed by relating total births, regardless of age of mother, to women aged 15-44 years. Total fertility rates are sums of birth rates for 5-year age groups multiplied by 5]

				Hispa	anic				Non-Hispanic	
Characteristic	All origins ¹	Total	Mexican	Puerto Rican	Cuban	Central and South American	Other and unknown Hispanic	Total ²	White	Black
				_	Nu	ımber				
Births	4,025,933	851,851	611,000	57,568	14,017	121,365	47,901	3,149,572	2,326,578	589,917
			-		. F	Rate			_	1_
Birth rate	14.5	25.4						13.0	11.9	17.5
Fertility rate Total fertility rate	66.9 2,114.5	107.6 3,165.0						60.8 1,936.0	57.6 1,853.0	71.6 2,190.5
Sex ratio ³	1,046	1,038	1,037	1,052	1,032	1,037	1,042	1,048	1,051	1,032
					Pe	ercent				
All births	44.0	45.0	16.5	19.2	7.5	9.4	17.3	10.1	8.2	18.9
Births to mothers under 20 years	11.3 10.8	15.6 13.6	14.6	12.4	7.5 5.4	10.7	11.3	10.1	8.9	15.2
th- and higher-order births	33.5	42.5	40.8	58.9	27.2	44.3	44.2	31.1	22.5	68.6
Births to unmarried mothers Mothers completing 12 years or										
more of school	78.3	51.2	45.0	67.7	88.2	63.5	69.6	85.5	88.0	75.2
Mothers born in the 50 States and				04.0	45.0	11.2	73.8	88.4	94.3	88.7
DC	77.5	36.8	36.2	64.8	45.0	11.2	73.0	00.4	34.3	00.7
Mothers born in the 50 States and DC										
Births to mothers under 20 years	12.2	22.3	23.3	21.0	12.8	19.9	20.4	11.0	8.5	20.€
Ith- and higher-order births	10.3	11.8	12.4	11.6	6.0	5.6	11.3	10.1	8.8	15.4
Births to unmarried mothers	34.5	47.9	46.6	61.3	27.5	46.0	46.4	33.0	23.2	72.1
Nothers completing 12 years or									~- ~	
more of school	83.4	67.8	65.8	67.8	86.3	80.4	71.9	85.1,	87.9	74.1
Mothers born outside the 50 States and DC										
Births to mothers under 20 years	8.2	11.6	12.6	15.9	3.1	8.1	8.5	3.2	3.1	5.4
tth- and higher-order births	12.3	14.6	15.8	13.7	4.9	11.3	11.3	9.0	9.7	13.7
Births to unmarried mothers Mothers completing 12 years or	30.0	39.2	37.4	54.4	26.9	44.1	36.9	16.4	10.6	40.6
more of school	60.7	41.5	32.9	67.4	89.7	61.3	63.4	88.9	90.7	84.2

Data not available.



¹ Includes origin not stated.
2 Includes races other than white and black.
3 Male live births per 1,000 female live births.

NOTES: Race and Hispanic origin are reported separately on birth certificates. Persons of Hispanic origin may be of any race. In this table Hispanic women are classified only by place of origin; non-Hispanic women are classified by race; see Technical notes. Denominators for population-based rates are derived from the 1990 U.S.Census. As a result, rates are generally larger than would be the case if 2000-based estimates were used. The magnitude of the overestimate will vary by population subgroup; overestimates are likely greatest for those of Hispanic origin; see Technical notes.Rates for Hispanic subgroups are not shown because population data for these groups, based on the 1990 Census, are not reliable; see Technical notes.

Table 15. Live births by race of mother and observed and seasonally adjusted birth and fertility rates, by month: United States, 2001

[Rates on an annual basis per 1,000 population for specified month. Birth rates are live births per 1,000 total population. Fertility rates are live births per 1,000 women aged 15-44 years]

Month		Number		Obs	served	Seasonall	y adjusted ¹
	All races ²	White	Black	Birth rate	Fertility rate	Birth rate	Fertility rate
Total	4,025,933	3,177,626	606,156	14.5	66.9		
anuary	335,198	261,589	52.967	14.3	65.6	14.8	68.1
ebruary	303,534	239,082	46,173	14.3	65.9	14.5	66.8
March	338,684	267,677	50,649	14.4	66.3	14.5	66.9
pril	323,613	257,148	47.211	14.2	65.5	14.5	66.9
lay	344,017	274,150	49,470	14.6	67.4	14.7	67.9
une	331,085	263,118	48,461	14.5	67.0	14.3	66.0
uly	351,047	277,569	52.851	14.9	68.7	14.4	66.7
ugust	361,802	286,012	54,454	15.3	70.8	14.7	67.8
eptember	342,564	270,305	51,467	15.0	69.3	14.3	66.1
ctober	344,074	271,950	51,190	14.5	67.4	14.6	67.7
ovember	323,746	254,005	49.761	14.1	65.5	14.6	67.7
December	326,569	255.021	51,502	13.8	64.0	14.1	65.3

^{...} Category not applicable

NOTE: Race and Hispanic origin are reported separately on birth certificates. In this table all women (including Hispanic women) are classified only according to their race; see Technical notes.

Table 16. Live births by day of week and index of occurrence by method of delivery, day of week, and race of mother: United States, 2001

	_		t	ndex of occurrence	,1	
Day of week and	Average number			Method	of delivery	
race of mother	of births	Total ²	Vacinal		Cesarean	
			Vaginal	Total	Primary	Repeat
Il races ³	11,030	100.0	100.0	100.0	100.0	100.0
unday	7,637	69.2	75.4	E0.7	61.0	
londay	11,192	101.5		50.7	61.0	34.1
uesday	12,496	113.3	99.7	106.9	98.2	120.7
/ednesday	12,490		111.0	120.1	117.6	124.2
nursday	12,371	112.2	110.1	118.3	115.9	122.2
		113.0	111.1	118.8	115.6	124.0
iday	12,315	111.7	107.7	123.5	117.0	133.9
aturday	8,729	79.1	84.9	61.6	74.8	40.5
/hite	8,706	100.0	100.0	100.0	100.0	100.0
unday	5,878	67.5	73.8	48.5	59.0	32.1
onday	8,893	102.1	100.3	107.8	98.8	121.9
iesday	9,928	114.0	111.8	120.9	118.6	124.5
ednesday	9,810	112.7	110.6	118.9	116.6	122.3
ursday	9,908	113.8	111.9	119,6	116.2	124.8
iday	9,771	112.2	108.1	124.8	117.8	135.6
aturday	6,750	77.5	83.4	59.5	73.1	38.4
lack	1,661	100.0	100.0	100.0	100.0	100.0
unday	1,250	75.2	81.2	58.6	68.4	42.2
onday	1,638	98.7	97.0	103.2	95.6	115.9
esday	1,844	111.0	108.7	117.6	113.9	123.8
ednesday	1,834	110.4	108.1	117.0	113.8	122.2
nursday	1,834	110.5	108.5	116.2	113.6	120.3
iday	1,816	109.3	105.9	118.8	114.3	126.3
aturday	1,410	84.9	90.7	68.6	80.4	49.0

¹ Index is the ratio of the average number of births by a specified method of delivery on a given day of the week to the average daily number of births by a specified method of delivery for the year, multiplied by 100.

Includes method of delivery not stated.

NOTE: Race and Hispanic origin are reported separately on birth certificates. In this table all women (including Hispanic women) are classified only according to their race; see Technical notes.



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The method of seasonal adjustment, developed by the U.S. Bureau of the Census, is described in The X11 Variant of the Census Method II Seasonal Adjustment Program, Technical Paper No. 15 (1967 revision).
 Includes races other than white and black.

Table 17. Number, birth rate, and percent of births to unmarried women by age, race, and Hispanic origin of mother: United States, 2001

		W	/hite	В	lack	
Measure and age of mother	All races 1	Total	Non-Hispanic	Total	Non-Hispanic	Hispanic ²
Number						
All ages	1,349,249	879,848	524,371	414,533	404,503	361,689
Jnder 15 years	7,494	3,833	1.522	3,440	3,388	2.354
5-19 years	352,026	232,945	140,734	106,005	103,654	93,798
15 years	18,872	11,389	5,353	6,831	6,687	6,150
16 years	40.653	26,115	13,646	13,029	12,742	12,663
	68,113	45,209	26.136	20.378	19,914	19,418
17 years	100,050	67,108	41,767	29,275	28,613	25,750
18 years		83,124	53.832	36,492	35,698	29,817
19 years	124,338		•	160,840	157,334	128,872
0-24 years	514,959	335,051	208,328	79,107	77,029	76,385
5-29 years	257,702	166,999	91,889		39,620	38,984
0-34 years	135,040	87,461	49,213	40,831		
5-39 years	65,257	42,346	25,585	19,622	18,941	17,131
0 years and over	16,771	11,213	7,100	4,688	4,537	4,165
Rate per 1,000 unmarried women in specified group						
5-44 years ³	45.0	39.2	27.7	70.1	***	98.0
5-19 years	37.4	31.5	22.9	71.4	***	71.8
15-17 years	22.5	18.5	12.2	45.5		47.6
18-19 years	60.1	51.3	39.0	109.4		110.4
0-24 years	73.8	63.1	46.3	127.5	***	150.5
5-29 years	63.7	58.1	38.4	88.2		150.3
0-34 years	41.9	38.4	25.5	52.9		106.5
15-39 years	20.8	18.8	13.2	25.9	•••	53.2
0-44 years ⁴	5.3	4.8	3.6	6.3		12.5
Percent of births to						
unmarried women						
All ages	33.5	27.7	22.5	68.4	68.6	42.5
Jnder 15 years	96.3	93.6	96.3	99.6	99.6	92.1
5-19 years	78.9	73.1	74.0	95.6	95.8	72.1
15 years	93.7	90.5	92.9	99.3	99.3	88.7
16 years	89.6	85.6	87.8	98.8	98.9	83.5
17 years	85.3	80.6	83.2	98.1	98.1	77.6
18 years	79.2	73.5	75.4	95.9	96.0	70.9
	71.4	64.9	65.6	92.4	92.6	64.0
19 years	71. 4 50.4	43.0	39.8	80.7	80.9	49.9
20-24 years		43.0 19.6	14.8	57.6	57.7	33.5
25-29 years	24.4		7.9	43.1	43.2	25.9
30-34 years	14.3	11.3				25.9 25.2
35-39 years	14.4	11.5	8.5	40.0	39.9	25.2 28.4
10 years and over	17.1	14.2	11.1	40.7	40.6	26.4

Data not available.

NOTES: For 48 States and the District of Columbia, marital status is reported on the birth certificate; for Michigan and New York, mother's marital status is inferred; see Technical notes. Rates cannot be computed for unmarried non-Hispanic black women because the necessary populations are not available.

Denominators for population-based rates are derived from the 1990 U.S.Census. As a result, rates are generally larger than would be the case if 2000-based estimates were used. The magnitude of the overestimate will vary by population subgroup; overestimates are likely greatest for those of Hispanic origin; see Technical notes.



Includes races other than white and black and origin not stated.

Includes races other trian white and block and shift. The state of the

Table 18. Birth rates for unmarried women by age of mother: United States, 1970, 1975, and 1980-2001, and by age, race, and Hispanic origin of mother: United States, 1980-2001

[Rates are live births to unmarried women per 1,000 unmarried women. Population estimated as of July 1]

					Age of mother				
Year and race and Hispanic origin	15-44		15-19 years	_	- 00.04	05.00	00.04	05.00	40.44
and inspanie origin	years 1	Total	15-17 years	18-19 years	20-24 years	25-29 years	30-34 years	35-39 years	40-44 years ²
All races ³									
2001 4	45.0	37.4	22.5	60.1	73.8	63.7	41.9	20.8	5.3
2000 ⁴ 1999 ⁴	45.2	39.6	24.4	62.9	74.5	62.2	40.7	20.0	5.0
1999 ⁴	44.4 44.3	40.4 41.5	25.5 27.0	63.3 64.5	72.9 72.3	60.2 58.4	39.3	19.3	4.6
1997 4	44.0	42.2	28.2	65.2	72.3 71.0	56.2	39.1 39.0	19.0 19.0	4.6 4.6
1996 4	44.8	42.9	29.0	65.9	70.7	56.8	41.1	20.1	4.8
1995 4	45.1	44.4	30.5	67.6	70.3	56.1	39.6	19.5	4.7
1994 ⁴ 1993 ⁴	46.9	46.4	32.0	70.1	72.2	59.0	40.1	19.8	4.7
1993 ⁴ 1992 ⁴	45.3 45.2	44.5 44.6	30.6 30.4	66.9 67.3	69.2	57.1	38.5	19.0	4.4
1991 4	45.2 45.2	44.8	30.4	65.7	68.5 68.0	56.5 56.5	37.9 38.1	18.8 18.0	4.1 3.8
1990 4	43.8	42.5	29.6	60.7	65.1	56.0	37.6	17.3	3.6 3.6
1989 4	41.6	40.1	28.7	56.0	61.2	52.8	34.9	16.0	3.4
1988 4	38.5	36.4	26.4	51.5	56.0	48.5	32.0	15.0	3.2
1987 ⁴ 1986 ⁴	36.0	33.8	24.5	48.9	52.6	44.5	29.6	13.5	2.9
1986 ⁴ 1985 ⁴	34.2 32.8	32.3 31.4	22.8 22.4	48.0 45.9	49.3	42.2	27.2	12.2	2.7
1984 4, 5	31.0	30.0	21.9	43. 9 42.5	46.5 43.0	39.9 37.1	25.2 23.3	11.6 10.9	2.5 2.5
1983 4, 5	30.3	29.5	22.0	40.7	41.8	35.5	22.4	10.9	2.6 2.6
با 1982 م بالا 1982 ما المالية	30.0	28.7	21.5	39.6	41.5	35.1	21.9	10.0	2.7
1981 4, 5	29.5	27.9	20.9	39.0	41.1	34.5	20.8	9.8	2.6
1980 4, 5	29.4	27.6	20.6	39.0	40.9	34.0	21.1	9.7	2.6
1980 ^{5, 6}	28.4	27.5	20.7	38.7	39.7	31.4	18.5	8.4	2.3
1975 ^{5, 6} 1970 ^{6, 7}	24.5 26.4	23.9	19.3	32.5	31.2	27.5	17.9	9.1	2.6
1970 - 7	20.4	22.4	17.1	32.9	38.4	37.0	27.1	13.6	3.5
White, total									•
2001 4	39.2	31.5	18.5	51.3	63.1	58.1	38.4	18.8	4.8
2000 4	38.9	33.1	20.0	53.2	62.9	55.9	37.0	18.0	4.5
1999 4	38.1	33.7	21.0	53.3	61.4	53.4	35.8	17.5	4.1
1998 ⁴ 1997 ⁴	37.5	34.0	21.8	53.5	60.5	50.9	34.9	17.0	4.0
4	37.0	34.2	22.4	53.6	59.2	49.3	34.4	16.7	3.9
1996 ⁴ 1995 ⁴	37.6 37.5	34.5 35.5	22.7 23.6	54.1 55.4	59.0	49.9	36.1	17.8	4.3
1994 4	38.3	36.2	24.1	56.4	58.0 58.1	48.7 49.7	34.2 34.2	16.9 17.3	4.2 4.3
1993 4	35.9	33.6	22.1	52.4	54.2	46.7	32.2	16.4	3.9
1992 4	35.2	33.0	21.6	51.5	52.7	45.4	31.5	16.2	3.6
1991 4	34.6	32.8	21.8	49.6	51.5	44.6	31.1	15.2	3.2
1990 ⁴	32.9	30.6	20.4	44.9	48.2	43.0	29.9	14.5	3.2
1989 ⁴ 1988 ⁴	30.2 27.4	28.0 25.3	19.3	40.2	43.8	39.1	26.8	13.1	2.9
1987 4	25.3	23.2	17.6 16.2	36.8 34.5	39.2 36.6	35.4 32.0	24.2 22.3	12.1 10.7	2.7 2.4
1986 4	23.9	21.8	14.9	33.5	34.2	30.5	20.1	9.7	2.2
1985 4	22.5	20.8	14.5	31.2	31.7	28.5	18.4	9.0	2.0
1984 4, 5	20.6	19.3	13.7	27.9	28.5	25.5	16.8	8.4	2.0
1983 ^{4, 5}	19.8	18.7	13.6	26.4	27.1	23.8	15.9	7.8	2.0
1981 ^{4, 5}	19.3 18.6	18.0 17.2	13.1	25.3	26.5	23.1	15.3	7.4	2.1
1980 4, 5	18.1	16.5	12.6 12.0	24.6 24.1	25.8 25.1	22.3 21.5	14.2 14.1	7.2 7.1	1.9 1.8
White, non-Hispanic					20.1	21.0	14.1	7.1	1.0
2001 ⁴ 2000 ⁴	27.7	22.9	12.2	39.0	46.3	38.4	25.5	13.2	3.6
2000 ⁴ 1999 ⁴	27.9 27.9	24.5 25.5	13.6	41.4	46.6	37.6	25.0	12.9	3.3
1998 4	28.0	26.1	14.6 15.6	42.3 42.8	46.0 46.0	37.0 36.1	25.0 25.2	13.0 13.1	3.1 3.0
1997 4	27.6	26.4	16.2	43.1	44.8	35.2	25.2 25.1	12.7	3.0 2.9
1996 4	28.3	27.0	16.9	43.8	44.5	35.7	26.6	13.9	3.3
1995 4	28.2	27.7	17.6	44.5	43.8	34.9	25.3	13.0	3.2
1994 4	28.5	28.1	18.0	45.0	43.8	35.0	24.8	12.9	3.1
1993 ⁴ 1992 ⁴									
1991 4									
1990 4, 8	24.4	25.0	16.2	37.0	36.4	30.3	20.5	6.1	
			· =		•	55.5	20.0	0.1	-

See footnotes at end of table.



Table 18. Birth rates for unmarried women by age of mother: United States, 1970, 1975, and 1980-2001, and by age, race, and Hispanic origin of mother: United States, 1980-2001 -Con.

[Rates are live births to unmarried women per 1,000 unmarried women. Population estimated as of July 1]

					Age of mother				
Year and race	45.44		15-19 years			05.00	20.24	35-39	40-44
and Hispanic origin	15-44 years ¹	Total	15-17 years	18-19 years	20-24 years	25-29 years	30-34 years	years	years ²
Black, total	•						·		
001 4	70.1	71.4	45.5	109.4	127.5	88.2	52.9	25.9	6.3
000 4	72.5	77.0	49.9	116.9	132.8	89.6	51.9	25.9	6.3
999 4	71.5	78.4	51.5	117.9	130.3	89.6	50.3	24.7	5.9
998 4	73.3	83.4	56.5	123,5	131.0	90,3	51.7	24.7	6.1
997 4	73.4	86.4	60.6	127.2	127.8	85.2	52.3	24.7	6.5
996 4	74.4	89.2	64.0	129.2	125.8	84.5	54.5	25.5	6.1
995 4	75.9	92.8	68.6	131.2	127.7	84.8	54.3	25.6	6.0
994 4	82.1	100.9	75.1	141.6	138.1	93.6	57.2	26.3	5.9
993 4	84.0	102.4	76.8	141.6	142.2	94.5	57.3	25.9	5.8
992 4	86.5	105.9	78.0	147.8	144,3	98.2	57.7	25.8	5.4
	89.5	108.5	80.4	148.7	147.5	100.9	60.1	25.6	5.4
	90.5	106.0	78.8	143.7	144.8	105.3	61.5	25.5	5.1
		104.5	78.9	140.9	142.4	102.9	60.5	24.9	5.0
	90.7	96.1			133.6	97.2	57.4	24.1	5.0
	86.5		73.5 69.9	130.5 123.0	126.1	91.6	57.4 53.1	22.4	4.7
987 4	82.6	90.9					50.0	20.6	4.4
986 4	79.0	88.5	67.0	121.1	118.0	84.6		20.6	4.3
985 4	77.0	87.6	66.8	117.9	113.1	79.3	47.5	20.4 19.4	4.3
984 4, 5	75.2	86.1	66.5	113.6	107.9	77.8	43.8		
983 4, 5	76.2	85.5	66.8	111.9	107.2	79.7	43.8	19.4	4.8
982 4, 5	77.9	85.1	66.3	112.7	109.3	82.7	44.1	19.5	5.2
981 4, 5	79.4	85.0	65.9	114.2	110.7	83.1	45.5	19.6	5.6
980 4, 5	81.1	87.9	68.8	118.2	112.3	81.4	46.7	19.0	5.5
Hispanic ⁹									
001 4	98.0	71.8	47.6	110.4	150.5	150.3	106.5	53.2	12.5
000 4	97.3	74.2	51.0	110.6	150.2	149.5	101.5	48.4	12.4
999 4	93.4	73.8	52.4	107.6	143.3	143,6	93.3	44.1	11.3
998 4	90.1	73.9	53.0	107.8	135.0	136.0	85.4	40.1	12.0
997 4	91.4	75.2	55.0	109.5	139.1	135,0	86.1	42.0	12.2
996 4	93.2	74.5	53.4	110.4	146.5	139.1	90.8	42.3	12.3
995 4	95.2 95.0	74.5 78.7	56.3	117.9	148.9	133.8	89.2	43.4	12.2
	101.2	82.6	59.0	123.6	154.8	141.6	95.5	48.4	14.0
		74.6	59.0 51.9	114.6	140.5	137.7	90.9	47.8	14.1
	95.2 05.3		51.9 51.0	110.5	142.2	138.3	91.8	47.8 48.1	14.5
	95.3	72.9				136.3		47.7	14.3
991 4	93.7	72.4	50.5	109.6	135.4		89.1 88.1	47.7 50.8	13.7
990 4, 8	89.6	65.9	45.9	98.9	129.8	131.7	QQ. I	0.00	13.7

NOTES: Rates cannot be computed for unmarried non-Hispanic black women because the necessary populations are not available. Denominators for population-based rates for 1991-2001 are derived from the 1990 U.S. Census. As a result, rates for more recent years are generally larger than would be the case if 2000-based estimates were used. The magnitude of the overestimate will vary by population subgroup; overestimates are likely greatest for those of Hispanic origin; see Technical notes.



⁻⁻⁻ Data not available.

1 Rates computed by relating total births to unmarried mothers, regardless of age of mother, to unmarried women aged 15-44 years.

2 Rates computed by relating births to unmarried mothers aged 40 years and over to unmarried women aged 40-44 years.

3 Includes races other than white and black.

4 Data for States in which marital status was not reported have been inferred and included with data from the remaining States; see Technical notes.

5 Based on 100 percent of births in selected States and on a 50-percent sample of births in all other States; see Technical notes.

6 Births to unmarried women are estimated for the United States from data for registration areas in which marital status of mother was reported; see Technical notes.

⁷ Based on a 50-percent sample of births.
8 Rates for 1990 based on data for 48 States and the District of Columbia which reported Hispanic origin on the birth certificate. Rate shown for ages 35-39 years is based on births to unmarried women aged 35-44 years.
9 Includes all persons of Hispanic origin of any race.

Table 19. Number and percent of births to unmarried women by race and Hispanic origin of mother: United States, each State and territory, 2001

[By place of residence]

		Bir	ths to unma	arried wom	en 				Percent u	ınmarried		
a. .		w	nite	Bla	ack	-		w	nite	Bla	ack	
State	All races 1	Total	Non- Hispanic	Total	Non- Hispanic	Hispanic ²	All races 1	Total	Non- Hispanic	Total	Non- Hispanic	Hispanic
United States 3	1,349,249	879,848	524,371	414,533	404,503	361,689	33.5	27.7	22.5	68.4	68.6	42.
Alabama	20,777	7.638	7,072	13,028	13,023	557	34.4	18.8	18.4	67.9	67.9	24.
Naska	3,281	1,422	1,205	196	167	225	32.8	22.3	21.6	44.4	43.0	24. 34.
rizona	33,776	27,790	9,450	1,764	1,632	18,400	39.5	36.9	24.3	63.9	63.8	50.
rkansas	13,378	7,546	6,558	5,642	5,635	979	36.1	26.2	25.1	75.9	75.9	37.
alifornia	172,764	141,305	33,422	21,145	20,395	108,473	32.7	33.0	20.0	62.6	62.7	41.
olorado	16,732	14,625	7,201	1,525	1,447	7,613	25.0	24.0	17.2	51.3	51.1	38
onnecticut	12,433	8,814	4,538	3,391	3,259	4,271	29.2	24.8	16.0	66.0	66.1	61
elaware	4,290	2,304	1,713	1,952	1,936	598	39.9	30.0	26.0	72.0	72.1	
istrict of Columbia	4,376	617	131	3,727	3,693	491	57.4	24.0	7.8	72.0 76.7	76.9	55
lorida	80,221	47,056	28,635	31,784	•							54
1011da	00,221	47,030	20,033	31,704	31,111	19,315	39.0	30.9	27.5	67.4	67.7	38
eorgia	49,834	20,554	14,413	28,740	28,470	6,162	37.3	24.0	20.8	65.7	66.1	39
awaii	5,632	706	528	110	97	989	33.0	18.5	16.9	20.9	19.6	44
laho	4,557	4,281	3,260	35	32	942	22.0	21.5	19.3	40.7	41.0	34
inois	63,449	37,345	20,316	25,401	25,265	17,150	34.5	26.2	20.0	76.5	76.6	41
diana	30,676	23,146	20,237	7,312	7,260	2,820	35.5	30.7	29.2	75.8	75.8	47
wa	10,824	9,589	8,672	942	921	924	28.8	27.1	26.2	74.4	74.5	41
ansas	11,628	9,306	7,202	1,947	1,927	2,063	29.9	26.9	24.5	70.0	70.1	42
entucky	17,317	13,639	13,038	3,540	3,529	608	31.7	27.9	27.5	71.8	71.9	40
ouisiana	30,267	9,664	9,153	20,218	20,196	532	46.3	26.2	25.9	74.7	74.8	34
aine	4,369	4,196	4,123	61	56	65	31.8	31.6	31.5	39.9	39.4	37
aryland	25,198	10,381	8.093	14.429	14 226	0.000	04.4	00.0	00.0	50.5	50.0	
assachusetts	21,641	15.961	11,064	4,835	14,326	2,303	34.4	23.0	20.3	59.5	59.6	43
ichigan	•	•			3,830	5,756	26.7	23.5	18.6	58.9	58.5	60
innesota	45,742 17,782	27,719	24,284	17,332	17,228	3,071	34.3	26.3	25.2	73.4	73.6	41
		13,174	10,958	2,739	2,684	2,179	26.3	22.7	20.6	57.5	57.3	48
ississippi	19,582	5,111	4,819	14,230	14,227	290	46.3	22.4	21.8	75.6	75.6	40
issouri	26,235	17,345	16,101	8,504	8,471	1,261	34.8	27.8	27.1	76.4	76.4	42
ontana	3,440	2,437	2,188	26	24	153	31.4	25.8	24.9	61.9	63.2	40
ebraska	6,870	5,542	4,211	939	925	1,212	27.7	24.6	22.1	68.4	68.3	41
evada	11,679	9,078	4,407	1,739	1,677	4,635	37.2	34.5	28.8	69.1	69.5	42
ew Hampshire	3,542	3,416	3,035	85	65	190	24.2	24.5	23.6	40.9	40.9	37
ew Jersey	33,807	19,831	8,425	13,357	12,298	12,380	29.2	23.3	13.3	64.9	65.7	52
ew Mexico	12,552	9,714	2,404	297	277	7,375	46.3	42.6	27.4	58.1	57.1	52
ew York	90,746	52,619	23,366	34,652	30,849	32,298	35.7	28.9	17.9	66.4	66.0	59
orth Carolina	40,507	20,513	13,821	18,693	18,628	6,723	34.3	24.0	19.5	65.8	65.9	46
orth Dakota	2,127	1,503	1,399	29	29	42	27.9	22.7	22.2	28.4	28.7	30
hio	53,239	35,425	33,184	17,363	17,230	2,271	35.1	28.2	27.5	75.5	75.7	49
klahoma	17,637	11,565	9,587	3,253	3,227	2,035	35.2	29.5	27.9	70.5	70.6	41
regon	13,764	12,315	9,086	609	586	3,256	30.4	29.8	27.2	64.5	64.5	41
ennsylvania	48,536	32,400	27,318	15,480	15,009	4,980	33.8	27.2	24.7	76.5	76.5	60
hode Island	4,543	3,532	1,929	757	679	1,302	35.7	32.2	25.1	68.1	68.3	59
outh Carolina	22,343	8,617	7,382	13,521	13,494	1,259	40.4	04.0	00.4	74 4	74 -	
outh Dakota	3,516	2,053					40.1	24.0	22.4	71.4	71.5	42
ennessee		15,608	1,956	12.064	42	134	33.5	24.2	23.7	43.6	43.3	52
exas	27,974	•	13,940	12,064	12,044	1,698	35.7	25.9	24.7	72.7	72.7	43
	113,420	86,986	28,958	25,159	24,859	57,981	31.0	27.9	20.8	61.7	61.8	33
ah	8,327	7,573	5,004	152	144	2,539	17.4	16.7	12.9	44.4	44.3	38
ermont	1,972	1,939	1,863	14	13	11	31.0	31.1	31.0		*	
ginia	29,930	15,440	11,830	14,011	13,925	3,648	30.3	21.8	19.1	62.9	63.1	39
ashington	22,880	18,519	13,399	1,779	1,726	4,961	28.8	27.5	24.6	53.4	53.6	40
est Virginia	6,638	6,072	6,024	541	537	30	32.5	31.0	31.0	76.8	76.9	36
isconsin	20,686	14,325	12,105	5,411	5,371	2,303	29.9	24.1	22.3	82.4	82.4	44
yoming	1,813	1,592	1,364	29	28	236	29.6	27.8	26.4	44.6	43.8	41
erto Rico	28,529	25,495		3,024			51.1	49.7		66.3		
rgin Islands	1,115	215	29	890	794	255	66.8	58.6	36.7	72.4	72.8	66
uam	1,985	32	27	5	5	17	55.7	13.7	12.9	, 2.4	12.0	00
merican Samoa	469	1					28.3	10.7	12.5			

^{*} Figure does not meet standards of reliability or precision; based on fewer than 20 births in the numerator.

- Quantity zero.

- Data not available.

1 Includes races other than white and black and origin not stated.

2 Includes all persons of Hispanic origin of any race.

3 Excludes data for the territories.



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Table 20. Birth rates by age and race of father: United States, 1980-2001

[Rates are live births per 1,000 men in specified group. Population enumerated as of April 1 for 1980 and 1990 and estimated as of July 1 for all other years. Figures for age of father not stated are distributed]

	44					Age of father				
Year and race of father	15-54 years ¹	15-19 years ²	20-24 years	25-29 years	30-34 years	35-39 years	40-44 years	45-49 years	50-54 years	55 years and over
All races ³										
2001	50.6	18.7	81.7	116.9	106.5	58.4 ,	22.2	7.4	2.4	0.4
2000	51.6	20.2	84.5	117.4	105.8	57.4 54.0	22.0 21.1	7.4 7.2	2.5 2.5	0.3 0.3
999	50.8 51.0	21.0 21.6	83.8 84.8	114.8 112.6	101.6 99.2	54.9 53.9	20.9	7.2 7.2	2.5 2.5	0.3
998	50.4	22.2	83.4	108.5	95.7	52.1	20.6	7.1	2.5	0.3
996	51.1	23.0	84.4	107.7	94.3	51.5	20.4	6.9	2.5	0.3
995	52.0	24.3	86.0	107.2	93.3 93.3	51.0 50.9	20.3 20.2	7.1 7.2	2.6 2.6	0.3 0.3
994 993	53.2 54.4	25.0 24.8	87.3 87.1	108.8 110.8	93.5 93.5	50.9 51.1	20.2	7.3	2.7	0.4
992	55.8	24.6	87.7	113.1	94.2	51.3	20.4	7.3	2.7	0.4
1991	57.1	24.8	88.0	114.7	95.1	51.8	20.2	7.5	2.7	0.4
1990	58.4 57.2	23.5 21.9	88.0 85.4	116.4 114.3	97.8 94.8	53.0 51.3	21.0 20.4	7.5 7.4	2.8 2.7	0.4 0.6
1989 1988	57.2 55.8	19.6	82.4	111.6	93.2	49.9	19.9	7.1	2.7	0.4
1987	55.0	18.3	80.5	109.9	91.2	48.6	19.0	6.9	2.6	0.4
1986	54.8	17.9	80.3	109.6	90.3	46.8	18.3	6.7	2.6	0.4
1985 1984 ⁴	55.6 55.0	18.0 17.8	81.2 80.7	112.3 111.4	91.1 89.9	47.3 46.0	18.1 17.8	6.6 6.3	2.5 2.4	0.4 0.4
1984 ⁴	55.0 55.1	18.2	82.6	113.0	89.1	45.2	17.4	6.4	2.3	0.4
1982 4	56.4	18.6	86.5	117.3	90.3	44.5	17.5	6.4	2.3	0.4
1981 ⁴ 1980 ⁴	56.3 57.0	18.4 18.8	88.4 92.0	119.1 123.1	88.7 91.0	43.3 42.8	17.0 17.1	6.2 6.1	2.3 2.2	0.4 0.3
1980 ⁴	57.0	10.0	92.0	123.1	31.0	42.0	17.1	0.1		0.0
2001	48.3	15.6	75.5	116.7	107.2	57.0	20.6	6.6	2.1	0.3
2000	48.9	16.8	77.6	116.4	105.9	55.7	20.4	6.5	2.1	0.3
1999	48.2	17.5	76.8	113.4	101.7	53.4	19.6	6.4	2.1 2.2	0.3 0.3
1998 1997	48.3 47.7	18.0 18.2	77.5 76.1	110.9 106.8	99.1 95.3	52.5 50.6	19.4 19.1	6.4 6.3	2.2	0.3
1996	48.4	18.8	77.2	106.4	94.0	50.2	19.0	6.2	2.1	0.2
1995	49.2	19.7	78.5	105.7	92.9	49.6	19.0	6.3	2.2	0.2
1994	50.0	19.8	78.5	106.4	92.5	49.3	18.9	6.3	2.2 2.2	0.3 0.2
1993 1992	50.9 52.2	19.2 18.9	77.9 78.2	108.0 110.1	92.4 93.2	49.2 49.3	18.6 18.8	6.4 6.4	2.2	0.2
1991	53.3	19.1	78.4	111.5	93.6	49.7	18.5	6.5	2.2	0.3
1990	54.6	18.1	78.3	113.2	96.1	50.9	19.2	6.5	2.2	0.3
1989	53.3	16.7	75.9	110.8	93.0 91.2	49.1 47.6	18.7 18.1	6.3 6.1	2.1 2.1	0.4 0.3
1988 1987	52.2 51.6	14.8 13.9	73.7 72.8	108.3 107.0	89.5	46.2	17.3	5.9	2.0	0.3
1986	51.7	13.8	73.3	107.0	88.7	44.4	16.6	5.7	2.0	0.3
1985	52.6	14.0	74.7	109.9	89.5	44.8	16.3	5.6	1.9	0.3
1984 ⁴ 1983 ⁴	51.8 52.0	14.0 14.4	74.3 76.3	108.8 110.2	87.9 86.8	43.5 42.6	16.0 15.5	5.3 5.3	1.9 1.8	0.3 0.3
1982 4	53.1	14.9	80.1	114.2	87.5	41.7	15.6	5.3	1.9	0.3
1981 4	52.9	15.0	81.7	115.8	85.8	40.3	15.0	5.2	1.8	0.3
1980 4	53.4	15.4	84.9	119.4	87.8	39.7	15.0	5.1	1.8	0.3
Black	0.4.0	07.4	400.0	100.7	100.0	E7 0	20.2	10.0	5.0	1.0
2001 2000	64.9 67.6	37.1 40.1	126.6 133.8	130.7 135.6	100.2 99.6	57.9 57.9	28.3 28.3	12.2 12.0	5.3	1.0
1999	66.9	41.5	133.5	134.0	95.4	55.2	26.6	11.6	5.3	1.0
1998	68.1	43.3	136.8	134.4	94.3	54.9	26.7	11.9	5.3	1.0
1997	68.0	45.6 47.2	136.6	130.2	91.8 89.3	53.3 52.3	26.1 25.7	11.7 11.6	5.5 5.5	1.1 1.1
1996 1995	68.3 70.1	47.2 50.5	138.0 140.5	127.2 126.6	89.6	52.5 52.6	25.7 25.7	12.1	5.6	1.1
1994	74.9	54.6	150.5	131.9	92.9	54.2	26.4	13.0	6.0	1.1
1993	78.3	56.6	153.8	136.0	95.3	56.6	27.7	13.5	6.4	1.3
1992	81.0 83.4	57.4 58.0	158.0 158.5	140.1 143.3	96.8 100.1	56.9 58.8	28.4 \ 29.4	13.9 14.2	6.2 6.7	1.4 1.4
1991 1990	84.9	58.0 55.2	158.2	144.9	103.2	60.4	31.1	15.0	7.1	1.4
1989	84.1	52.9	153.4	143.5	101.4	59.9	31.1	14.9	6.9	2.7
1988	80.7	48.1	144.1	137.9	100.0	58.0	30.6 30.0	14.3 13.8	6.9 6.6	1.4 1.3
1987 1986	78.3 77.2	44.6 42.6	136.1 131.4	133.9 131.6	97.4 97.4	58.0 58.0	30.0 29.1	13.5	6.7	1.3
1985	77.2 77.2	41.8	129.5	132.7	97.3	59.4	29.5	13.3	6.5	1.2
1984 4	76.7	40.9	128.0	132.2	98.3	58.4	29.3	13.3	6.1	1.2
1983 4	77.2	40.7	129.1	134.4	99.0	59.6 61.1	29.6 29.6	13.5 13.9	6.0 6.0	1.2 1.2
1982 ⁴	79.5 80.4	40.3 38.9	133.4 138.4	141.2 145.6	103.6 104.3	61.1 61.3	29.0 29.7	13.3	5.7	1.2
1980 4	83.0	40.1	145.3	152.8	109.6	62.0	31.2	13.6	5.9	1.1

NOTE: Race and Hispanic origin are reported separately on birth certificates. In this table all men (including Hispanic men) are classified only according to their race; see Technical notes. Age of father was not stated for 13.5 percent of births in 2001. Denominators for population-based rates for 1991-2001 are derived from the 1990 U.S.Census. As a result, rates for more recent years are generally larger than would be the case if 2000-based estimates were used. The magnitude of the overestimate will vary by population subgroup; overestimates are likely greatest for those of Hispanic origin; see Technical notes.



Rates computed by relating total births, regardless of age of father, to men aged 15-54 years.
Rates computed by relating births of fathers under 20 years of age to men aged 15-19 years.
Includes races other than white and black.
Based on 100 percent of births in selected States and on a 50-percent sample of births in all other States; see Technical notes.

Table 21. Live births by educational attainment, and percent of mothers completing 12 years or more and 16 years or more of school, by age and race and Hispanic origin of mother: United States, 2001

	_		Year	s of school com	pleted by moth	er		Percent	Percent
Age and race of mother	Total	0-8 years	9-11 years	12 years	13-15 years	16 years or more	Not Stated	12 years or more	16 years or more
All races 1									
All ages	4,025,933	239,637	621,917	1,253,033	856,770	998,495	56,081	78.3	25.
Under 15 years	7,781	5,896	1,586	-	•	-	299	•	
15-19 years	445,944	38,690	225,325	151,982	22,409	-	7,538	39.8	
15 years	20,150	6,067	13,483	4 007	•	•	600	•	
16 years	45,367 79,807	6,000	37,121	1,267	-	-	979	2.9	
17 years 18 years	126,361	6,872 8,951	58,783 58,662	12,535 52,894	249 3,805	•	1,368	16.3	
19 years	174,259	10,800	57,276	85,286	18,355	-	2,049 2,542	45.6 60.4	
0-24 years	1,021,627	66,283	211,265	446,403	227,492	56,135	14,049	72.5	5
25-29 years	1,058,265	61,013	103,669	318,213	273,991	287,570	13,809	84.2	27
0-34 years	942,697	40,208	53,120	213,384	212,460	411,527	11,998	90.0	44
15-39 years	451,723	21,306	22,294	101,229	99,468	200,933	6,493	90.2	45
0 years and over	97,896	6,241	4,658	21,822	20,950	42,330	1,895	. 88.6	44
White, total		•							•
All ages	3,177,626	216,272	463,173	951,942	669,254	836,595	40,390	78.3	26
Jnder 15 years	4,095	3,113	822	-	•	•	160	•	
5-19 years	318,563	33,396	157,826	107,026	15,103	-	5,212	39.0	
15 years	12,584	4,143	8,052	•		•	389	•	
16 years	30,510	4,821	24,124	915	•	•	650	3.1	
17 years	56,098	6,117	40,218	8,647	169	-	947	16.0	
18 years	91,284	8,279	42,486	36,528	2,550	•	1,441	43.5	
19 years	128,087 779,529	10,036	42,946	60,936	12,384	40 500	1,785	58.1	
20-24 years 25-29 years	850,343	62,222 56,895	160,950 81,843	333,324 247,880	169,312	43,588	10,133	71.0	5
30-34 years	777,294	36,266	41,921	168,060	216,633 172,054	237,000 350,281	10,092 8,712	83.5 89.8	28. 45.
35-39 years	368,816	18,954	16,536	79,046	79,621	169,935	4,724	90.3	45 46
0 years and over	78,986	5,426	3,275	16,606	16,531	35,791	1,357	88.8	46
White, non-Hispanic									
All ages	2,326,578	37,908	238,210	704,407	559,162	768,503	18,388	88.0	33.
Jnder 15 years	1,581	1,241	286			_	54		
5-19 years	190,161	9,827	92,276	74,998	11,131	_	1,929	45.8	
15 years	5,765	1,819	3,811	-	-	-	135	*	
16 years	15,538	1,792	12,988	524	-	•	234	3.4	
17 years	31,409	1,831	23,718	5,431	116	-	313	17.8	
18 years	55,409	2,120	25,732	25,252	1,774	-	531	49.2	
19 years	82,040	2,265	26,027	43,791	9,241		716	65.2	_
0-24 years 5-29 years	523,027 622,361	11,225	88,927	245,088	135,883	37,739	4,165	80.7	7
0-34 years	625,435	7,542 4,745	33,123 15,467	181,362 127,603	180,883 147,864	214,996 325,224	4,455 4,532	93.4	34
35-39 years	300,007	2,564	6,614	62,020	68,958	157,281	2,570	96.7 96.9	52 52
10 years and over	64,006	764	1,517	13,336	14,443	33,263	683	96.4	52
Black, total									
All ages	606,156	14,593	133,649	237,428	137,536	72,315	10,635	75.1	12
Inder 15 years	3,455	2,630	699	-	-	-	126	•	
5-19 years	110,843	4,484	59,375	38,855	6,209	-	1,920	41.4	
15 years	6,881	1,768	4,923		-	-	190		
16 years	13,183	1,016	11,599	294		-	274	2.3	
17 years	20,778 30,516	604 533	16,399	3,368	65 1.000	-	342	16.8	
18 years 19 years	30,516 39,485	522 574	14,154	14,279	1,066	-	495	51.1	
0-24 years	199,221	2,518	12,300 43,340	20,914 94,981	5,078 47,051	0 221	619	66.9	_
5-29 years	137,400	1,967	17,054	52,546	40,601	8,331 22,928	3,000 2,304	76.6 85.9	4 17
0-34 years	94,660	1,591	7,983	31,711	27,087	24,392	2,30 4 1,896	89.7	17 26
5-39 years	49,065	1,027	4,209	15,689	13,585	13,465	1,090	89.1	28
	11,512	376	.,	-,	,	. 0, .00	.,000	UU. I	20

See footnotes at end of table.



Table 21. Live births by educational attainment, and percent of mothers completing 12 years or more and 16 years or more of school, by age and race and Hispanic origin of mother: United States, 2001--Con.

			Year	s of school com	pleted by moth	er `		Percent	Percent
Age and race of mother	Total	0-8 years	9-11 years	12 years	13-15 years	16 years or more	Not Stated	12 years or more	16 years or more
Black, non-Hispanic									
All ages	589,917	13,568	130,177	231,405	134,231	70,655	9,881	75.2	12.
Under 15 years	3,401	2,589	689	_	-		123	•	
15-19 years	108,252	4,338	57,987	38,044	6,053	-	1,830	41.4	
15 years	6,735	1,744	4,808	,-,-	-,		183	•	
16 years	12,879	993	11,337	287	-	-	262	2.3	
17 years	20,293	587	16,054	3,261	61	_	330	16.6	
18 years	29,794	492	13,799	13,991	1.038	_	474	51.3	
19 years	38,551	522	11,989	20,505	4,954		581	67.1	
20-24 years	194,391	2,253	42,324	92,933	45,933	8,137	2.811	76.7	4.:
25-29 years	133,491	1,736	16,486	51,117	39,603	22,407	2,142	86.1	17.
30-34 years	91,710	1,402	7,684	30,597	26,439	23,853	1,735	89.9	26.
35-39 years	47,494	904	4,048	15,172	13 260	13,144	966	89.4	28.
40 years and over	11,178	346	959	3,542	2,943	3,114	274	88.0	28.0
Hispanic ²									
All ages	851,851	179,473	227,530	250,707	111,090	65,828	17,223	51.2	7.9
Under 15 years	2,555	1,911	542		-	•	102	*	
15-19 years	130,007	23,699	66,666	32,658	4,105	-	2,879	28.9	
15 years	6,936	2,347	4,356	-	-,		233	•	
16 years	15,165	3.047	11,360	394	_	-	364	2.7	
17 years	25,023	4,306	16,780	3,315	59	-	563	13.8	
18 years	36,298	6,175	17,025	11,517	804	•	777	34.7	
19 years	46,585	7.824	17,145	17,432	3,242	-	942	45.3	
20-24 years	258,431	51,318	72,628	89,383	34,099	5,895	5,108	51.1	2.
25-29 years	227,910	49,618	49,149	67,132	36,004	21,512	4,495	55.8	9.
30-34 years	150,352	31,730	26,679	40,986	24,180	23,869	2,908	60.4	16.
35-39 years	67,952	16,506	10,084	17,225	10,618	12,141	1,378	60.1	18.
40 years and over	14,644	4,691	1,782	3,323	2,084	2,411	353	54.7	16.9



Quantity zero.
 Figure does not meet standards of reliability or precision; based on fewer than 20 births in the numerator.
 Includes races other than white and black.
 Includes all persons of Hispanic origin of any race.

Table 22. Number of live births and percent distribution by weight gain of mother during pregnancy and median weight gain, according to period of gestation, race and Hispanic origin of mother: Total of 49 reporting States and the District of Columbia, 2001

					Weig	ght gain dui	ing pregna	incy			
Period of gestation ¹ and race and Hispanic origin of mother	All births	Less than 16 pounds	16-20 pounds	21-25 pounds	26-30 pounds	31-35 pounds	36-40 pounds	41-45 pounds	46 pounds or more	Not stated	Mediai weight gain ir pounds
						Number					
All gestation periods 2											
All races 3	3,498,174	393,209	358,483	449,047	579,607	445,101	406,092	218,886	403,635	244,114	
White, total White, non-Hispanic	2,749,388 2,159,553	285,272 208.444	270,633 198,846	355,449 278,463	464,430 370,894	365,000 299,595	329,790 271,635	179,328 150,450	321,721 270,858	177,765 110,368	•••
Black, total	572,382	90,251	67,592	68,374	84.442	57.326	56.957	30,203	67,208	50.029	
Black, non-Hispanic	557,366	88,619	66,020	66,472	82,141	55,474	55,282	29,258	65,208	48,892	
Hispanic ⁴	590,780	77,006	72,247	77,406	93,720	65,584	58,239	28,979	51,450	66,149	
Under 37 weeks	405.704	00.000	50.007	55.440		40.000					
III races ³	425,764 305,462	69,898 45,048	53,027 36,284	55,116 40,535	62,892 46,697	42,636 32,768	38,753	20,889	43,322	39,231	•••
White, non-Hispanic	235,431	32,420	26,889	31,521	36,756	26,404	29,356 23,890	16,304 13,665	32,776 27,768	25,694 16,118	
Black, total	100,579	21,843	14,030	11,755	13,208	7,938	7,740	3,771	9,050	11,244	
Black, non-Hispanic	98,645	21,558	13,791	11,489	12,940	7,747	7,571	3,680	8,844	11,025	
Hispanic ⁴	70,376	12,667	9,471	9,094	10,060	6,403	5,503	2,662	5,055	9,461	•••
37-39 weeks	4 757 000	100 44-	400.004	000 000	000 070	000 454	005 100	100 -0:	400.00	444	
All races ³ White, total	1,757,398 1,386,901	192,115 141,260	182,261 138,932	233,262 185,022	299,976 240,998	229,154 187,916	205,196 166,645	108,521 88,789	192,651 153,623	114,262	•••
White, non-Hispanic	1,097,362	104.370	102,804	146,163	193.925	155.283	137,818	74,797	129,791	83,716 52,411	
Black, total	279,477	41,961	32,708	34,685	42,686	29,208	28,630	15.084	32,021	22,494	
Black, non-Hispanic	272,359	41,198	31,964	33,736	41,555	28,307	27,836	14,648	31,100	22,015	
Hispanic 4	290,059	36,991	36,339	39,088	47,132	32,736	28,804	14,009	24,130	30,830	•••
40 weeks and over											
III races 3	1,306,249 1,050,641	130,271	122,654	160,080	215,984	172,814	161,643	89,234	167,149	86,420	•••
White, total White, non-Hispanic	823,118	98,336 71,331	95,057 68,941	129,456 100,533	176,143 139,857	143,928 117,670	133,402 109,674	74,050 61,884	134,951 113,067	65,318 40,161	
Black, total	190,517	26 195	20,709	21,820	28,428	20,101	20,505	11,300	26,023	15,436	
Black, non-Hispanic	184,647	25,615	20,123	21,137	27,529	19,345	19,795	10.883	25,153	15,067	
Hispanic ⁴	227,948	27,058	26,297	29,045	36,292	26,299	23,800	12,228	22,134	24,795	•••
					Perce	ent distribut	ion				
All gestation periods 2											
All races 3	100.0	12.1	11.0	13.8	17.8	13.7	12.5	6.7	12.4	•••	30.5
White, total	100.0	11.1	10.5	13.8	18.1	14.2	12.8	7.0	12.5	•••	30.6
White, non-Hispanic Black, total	100.0 100.0	10.2 17.3	9.7 12.9	13.6 13.1	18.1 16.2	14.6 11.0	13.3 10.9	7.3 5.8	13.2 12.9	•••	30.8 30.0
Black, non-Hispanic	100.0	17.4	13.0	13.1	16.2	10.9	10.9	5.8	12.8		30.0
Hispanic ⁴	100.0	14.7	13.8	14.8	17.9	12.5	11.1	5.5	9.8		29.0
Under 37 weeks											
ill races 3	100.0	18.1	13.7	14.3	16.3	11.0	10.0	5.4	11.2	•••	27.8
White, total	100.0	16.1	13.0	14.5	16.7	11.7	10.5	5.8	11.7		28.8
Black, total	100.0 100.0	14.8 24.5	12.3 15.7	14.4 13.2	16.8 14.8	12.0 8.9	10.9 8.7	6.2 4.2	12.7 10.1		30.1 25.5
Black, non-Hispanic	100.0	24.6	15.7	13.1	14.8	8.8	8.6	4.2	10.1		25.5
Hispanic 4	100.0	20.8	15.5	14.9	16.5	10.5	9.0	4.4	8.3		25.8
37-39 weeks											
Il races 3	100.0	11.7	11.1	14.2	18.3	13.9	12.5	6.6	11.7	•••	30.4
White, total	100.0	10.8	10.7	14.2	18.5	14.4	12.8	6.8	11.8		30.5
White, non-Hispanic Black, total	100.0 100.0	10.0 16.3	9.8 12.7	14.0 13.5	18.6 16.6	14.9 11.4	13.2	7.2 5.0	12.4	•••	30.8
Black, non-Hispanic	100.0	16.5	12.7	13.5	16.6	11.4	11.1 11.1	5.9 5.9	12.5 12.4	•••	30.1 30.1
Hispanic 4	100.0	14.3	14.0	15.1	18.2	12.6	11.1	5.4	9.3	•••	28.8
40 weeks and over											
III races 3	100.0	10.7	10.1	13.1	17.7	14.2	13.3	7.3	13.7	•••	30.8
White, total	100.0	10.0	9.6	13.1	17.9	14.6	13.5	7.5	13.7	•••	30.9
White, non-Hispanic Black, total	100.0 100.0	9.1	8.8	12.8	17.9	15.0	14.0	7.9	14.4	•••	31.8
	LUU.U	15.0	11.8	12.5	16.2	11.5	11.7	6.5	14.9	•••	30.4
Black, non-Hispanic	100.0	15.1	11.9	12.5	16.2	11.4	11.7	6.4	14.8	•••	30.4

NOTE: Excludes data for California, which did not require reporting of weight gain during pregnancy.



Category not applicable.
 Expressed in completed weeks.
 Includes births with period of gestation not stated.
 Includes races other than white and black and origin not stated.
 Includes all persons of Hispanic origin of any race.

Table 23. Percent low birthweight by weight gain of mother during pregnancy, period of gestation, and race and Hispanic origin of mother: Total of 49 reporting States and the District of Columbia, 2001

[Low birthweight is defined as weight of less than 2,500 grams (5 lb 8 oz)]

Period of gestation 1					Weight	gain during pr	egnancy			
and race and Hispanic origin of mother	Total	Less than 16 pounds	16-20 pounds	21-25 pounds	26-30 pounds	31-35 pounds	36-40 pounds	41-45 pounds	46 pounds or more	Not stated
All gestation periods 2										
All races 3	7.9	13.7	10.5	8.1	6.6	5.5	5.3	5.4	5.8	11.9
White, total	6.8	11.5	9.1	7.2	5.8	4.9	4.8	5.0	5.3	10.1
White, non-Hispanic	6.8	11.8	9.6	7.3	5.8	4.9	4.8	5.0	5.5	10.7
Black, total	13.0	20.6	16.2	13.0	10.8	9.2	8.6	7.8	8.0	18.5
Black, non-Hispanic	13.1	20.7	16.3	13.1	10.9	9.3	8.7	7.8	8.0	18.5
lispanic, total 4	6.8	10.9	8.0	6.7	5.7	5.0	4.6	4.7	4.5	9.2
Mexican	6.4	10.1	7.2	6.0	5.2	4.6	4.2	4.6	4.1	8.5
Puerto Rican	9.4	15.6	12.9	10.3	8.5	6.5	6.5	5.6	5.5	14.9
Cuban	6.5	12.8	8.3	7.2	5.1	5.5	4.6	4.3	5.1	14.8
Central and South American	6.5	10.9	8.0	6.6	5.7	5.2	4.2	3.9	4.3	9.6
Other and unknown Hispanic	8.1	13.7	10.4	8.4	6.6	5.2 5.7	5.6	5.5	5.6	10.7
·	0.1	13.7	10.4	0.4	0.0	3.7	3.0	5.5	3.0	10.7
Under 37 weeks										
All races ³	43.3	55.4	47.9	42.4	38.4	35.8	35.1	35.7	36.0	53.5
Vhite, total	41.3	52.4	46.1	40.7	37.0	34.8	34.1	35.5	35.7	51.0
White, non-Hispanic	42.6	54.7	48.9	42.3	38.3	35.9	35.3	36.3	36.9	54.8
Black, total	50.1	62.0	53.1	48.7	43.9	41.0	39.4	37.2	37.5	60.2
Black, non-Hispanic	50.2	62.0	53.2	48.8	44.1	41.0	39.5	37.2	37.5	60.2
lispanic 4	36.7	46.7	37.8	34.9	32.0	30.1	28.7	31.5	28.9	44.0
37-39 weeks										
All races ³	4.0	5.9	5.2	4.3	3.6	3.2	3.0	3.1	3.1	4.9
Vhite, total	3.4	5.0	4.4	3.7	3.1	2.7	2.7	2.8	2.8	4.1
White, non-Hispanic	3.4	5.1	4.4	3.7	3.0	2.7	2.6	2.8	2.8	4.1
Black, total	6.6	. 9.0	8.0	7.1	6.0	5.4	4.9	4.8	4.7	7.9
Black, non-Hispanic	6.6	9.0	8.1	7.2	6.0	5.5	5.0	4.8	4.7	8.0
lispanic 4	3.7	5.0	4.5	3.9	3.5	3.1	2.9	2.8	2.5	4.1
40 weeks and over										
All races ³	1.6	2.8	2.3	1.8	1.4	1.2	1.0	1.0	1.0	2.0
Vhite, total	1.3	2.2	2.0	1.5	1.2	1.0	0.9	0.9	0.9	1.8
White, non-Hispanic	1.2	2.2	1.9	1.5	1.2	1.0	0.9	0.8	0.8	1.7
Black, total	2.9	4.7	4.0	3.2	2.7	2.2	2.0	1.9	1.8	3.3
Black, non-Hispanic	3.0	4.8	4.0 4.1	3.2	2.8	2.3	2.0	2.0	1.8	3.3
Hispanic 4	1.5	4.6 2.4	2.0	3.2 1.5	1.3	2.3 1.1	1.1	0.9	1.1	2.0
nopanic	1.5	2.4	2.0	1.5	1.3	1,1	1.1	0.9	1,1	2.0

NOTE: Excludes data for California, which did not require reporting of weight gain during pregnancy.



Expressed in completed weeks.
Includes births with period of gestation not stated.
Includes races other than white and black and origin not stated.
Includes all persons of Hispanic origin of any race.

Table 24. Percent of births with selected medical or health characteristics, by detailed race of mother, by place of birth of mother: United States, 2001

Characteristic	All			American			Asian or Pa	cific Islander		
	races	White	Black	Indian 1	Total	Chinese	Japanese_	Hawaiian	Filipino	Othe
All Births										
Mother										
Prenatal care beginning in the first										
trimester	83.4	85.2	74.5	69.3	84.0	87.0	90.1	79.1	85.0	82
ate or no prenatal care	3.7	3.2	6.5	8.2	3.4	2.4	2.0	4.8	3.0	3
Smoker 2	12.0	13.0	9.0	19.9	2.8	0.7	3.8	14.8	3.2	2
Drinker ³	0.9	0.8	1.0	2.8	0.3	0.2	0.8	1.0	0.4	0
Weight gain of less than 16 lbs 4	12.1	11.1	17.3	16.9	9.4	6.9	11.6	8.9	8.1	10
Median weight gain 4	30.5	30.6	30.0	29.8	30.1	30.3	26.3	32.7	30.6	30
Cesarean delivery rate	24.4	24.3	25.9	21.6	23.3	22.9	20.1	20.2	26.6	23
Infant										
Preterm births 5	11.9	11.0	17.5	13.2	10.3	7.7	8.8	14.2	12.5	10
Birthweight			• •							
Very low birthweight 6	1.4	1.2	3.0	1.3	1.0	0.7	0.7	1.5	1.2	1
Low birthweight 7	7.7 9.4	6.7	13.0	7.3	7.5 5.5	5.3	7.3	7.9	8.7	7
4,000 grams or more 85-minute Apgar score of less than 7 9	9.4 1.4	10.4 1.2	5.2 2.3	11.6 1.4	5.5 1.0	6.4 0.7	4.7 0.9	8.8 1.3	5.6 1.1	5
5-minute Apgar score of less than 7	1.4	1.2	2.3	1.5	1.0	0.7	0.9	1.3	1.1	'
Births to mothers										
born in the 50 States and DC										
Mother										
Prenatal care beginning in the first										
trimester	85.1	87.6	74.4	69.3	83.0	92.2	92.1	79.3	84.9	79
ate or no prenatal care	3.2	2.4	6.4	8.0	3.7	1.4	1.6	4.7	3.1	4
Smoker ²	14.3	15.2	10.1	20.8	9.3	3.5	5.5	14.9	7.9	ε
Orinker 3	1.0	0.9	1.1	2.9	8.0	•	•	1.0	0.7	C
Weight gain of less than 16 lbs 4	11.8	10.5	17.6	17.0	8.8	6.5	10.1	8.7	8.9	8
Median weight gain 4	30.7	30.8	30.0	30.0	30.8	30.5	27.8	32.8	30.9	30
Cesarean delivery rate	24.6	24.5	25.6	21.4	20.7	21.0	24.9	20.2	21.0	19
Infant										
Preterm births ⁵	12.3	11.1	18.0	13.3	12.2	10.2	11.2	14.2	12.7	11
Birthweight										
Very low birthweight 6	1.5	1.2	3.1	1.3	1.3	1.0	0.9	1.5	1.2	1
Low birthweight 7	8.0	6.9	13.4	7.3	8.3	7.6	8.2	8.0	9.3	8
4,000 grams or more ⁸	9.7	10.7	4.7	11.9	7.0	6.0	6.0	8.8	6.0	7
5-minute Apgar score of less than 7 9	1.4	1.2	2.3	1.4	1.1	•	1.4	1.3	1.1	1
Births to mothers										
born outside the 50 States and DC										
Mother										
Prenatal care beginning in the first										
trimester	77.5	76.2	75.2	69.8	84.2	86.5	88.8	72.1	85.0	83
Late or no prenatal care	5.6	6.0	7.1	10.6	3.3	2.5	2.2	•	3.0	3
Smoker 2	2.0	2.2	1.3	4.9	1.5	0.4	2.8	•	2.0	1
Orinker ³	0.4	0.4	0.3		0.2	0.1	1.1	. •	0.3	C
Neight gain of less than 16 lbs 4	13.3	14.0	14.7	16.1	9.5	7.0	12.6	17.7	7.9	10
Median weight gain 4	29.0	28.8	29.5	27.9	30.0	30.3	25.7	28.5	30.6	29
Cesarean delivery rate	23.8	23.3	28.0	24.4	23.9	23.1	16.9	19.1	28.0	23
Infant										
Preterm births 5	10.7	10.6	13.8	12.2	9.9	7.4	7.3	•	12.4	10
Birthweight Very low birthweight 6		4.0		4.4	4.0			•	4.0	_
Low birthweight 7	1.1	1.0	2.4	1.4	1.0	0.7	0.6	•	1.2	1
4 000 grams or more 8	6.5	5.9 9.5	9.4	8.5	7.3	5.1 6.4	6.7	•	8.5	7
4,000 grams or more 85-minute Apgar score of less than 7 9	8.6 1.1	9.5 1.0	8.1 1.8	6.6	5.2	6.4	3.8	•	5.5	5
J-minute Apyar Score of 1888 than / V	1.1	1.0	1.8	1.4	0.9	0.7	0.6		1.1	1

NOTE: Race and Hispanic origin are reported separately on birth certificates. In this table all women (including Hispanic women) are classified only according to their race; see Technical notes.



Figure does not meet standards of reliability or precision; based on fewer than 20 births in the numerator.

Includes births to Aleuts and Eskimos.

Excludes data for California which did not report tobacco use on the birth certificate.

Excludes data for California which did not report alcohol use on the birth certificate.

Excludes data for California, which did not report weight gain on the birth certificate. Median weight shown in pounds.

Born prior to 37 completed weeks of gestation.

Birthweight of less than 1,500 grams (3 lb 4 oz).

Birthweight of less than 2,500 grams (5 lb 8 oz).

Equivalent to 8 lb 14 oz.

Excludes data for California and Texas, which did not report 5-minute Apgar score on the birth certificate.

Table 25. Percent of births with selected medical or health characteristics, by Hispanic origin of mother and by race for mothers of non-Hispanic origin and by place of birth of mother: United States, 2001

	·					Origin of mot	her			
0 1				Hisp	anic				lon-Hispani	С
Characteristic	All origins ¹	Total	Mexican	Puerto Rican	Cuban	Central and South American	Other and unknown Hispanic	Total ²	White	Black
All Births										
Mother										
Prenatal care beginning in the first	90.4	75.7	74.6	70.1	01.0	77.4	77.0	05.4	00.5	74.5
trimester	83.4	75.7	74.6	79.1	91.8	77.4	77.3	85.4	88.5	74.5
_ate or no prenatal care	3.7	5.9	6.2	4.6	1.3	5.7	5.4	3.2	2.2	6.5
Smoker 3	12.0	3.2	2.4	9.7	3.0	1.3	6.8	13.8	15.5	9.1
Drinker 4	0.9	0.5	0.4	0.7	0.2	0.2	1.1	0.9	0.9	1.0
Weight gain of less than 16 lbs 5	12.1	14.7	16.1	12.8	8.0	12.2	12.6	11.6	10.2	17.4
Median weight gain 5	30.5	29.0	27.7	30.6	32.1	30.2	30.3	30.6	30.8	30.0
Cesarean delivery rate	24.4	23.6	22.9	24.4	34.6	25.3	23.4	24.7	24.5	25.9
Infant										
Preterm births 6	11.9	11.4	11.2	13.7	10.6	11.2	12.4	12.1	10.8	17.6
Birthweight _										
Very low birthweight 7	1.4	1.1	1.0	1.8	1.3	1.2	1.3	1.5	1.2	3.1
Low birthweight 8	7.7	6.5	6.1	9.3	6.5	6.5	8.0	8.0	6.8	13.1
4,000 grams or more 9	9.4	8.7	9.0	6.9	9.5	8.6	7.2	9.6	11.1	5.
-minute Apgar score of less than 7 10	1.4	1.1	1.1	1.4	0.7	0.9	1.0	1.4	1.2	2.
Births to mothers born in the 50 States and DC Mother										
Prenatal care beginning in the first										
trimester	85.1	79.0	78.7	78.7	91.0	83.0	77.8	85.7	88.7	74.
ate or no prenatal care	3.2	4.5	4.6	4.7	1.7	3.5	5.0	3.0	2.2	6.
moker ³	14.3	6.6	5.3	11.0	4.1	4.6	8.7	15.0	16.1	10.
rinker 4	1.0	0.9	0.8	0.8	*	0.4	1.3	1.0	0.9	1.
Veight gain of less than 16 lbs 5	11.8	13.2	14.2	12.1	8.4	9.3	12.5	11.7	10.2	17.
Median weight gain 5	30.6	29.0	27.7	30.6	32.1	30.2	30.3	30.6	30.8	30.
Desarean delivery rate	24.6	23.8	23.7	24.1	31.6	23.4	22.6	24.7	24.6	25.0
occardan donvery rate	24.0	. 20.0	20.7	44.1	01.0	20.4	22.0	24.7	24.0	23.
Infant										
Preterm births 6	12.3	12.4	12.2	13.8	10.7	11.6	12.8	12.3	10.9	18.1
Birthweight Very low birthweight 7	1.5	1.3	1.2	1.9	1.2	1.5	1.3	1.5	1.2	3.
Low birthweight 8	8.0	7.4	6.9	9.5	6.6	7.5	8.3	8.1	6.8	13.
4,000 grams or more 9	9.7	7.4 7.9	8.2		8.4	7.5 8.2	6.9	9.9		
-minute Apgar score of less than 7 10	1.4	1.2	1.1	6.9 1.4	0.7	0.9	1.1	1.4	11.1 1.2	4. 2.
Births to mothers born outside the 50 States and D C Mother				·						
Prenatal care beginning in the first										
trimester	77.5	73.8	72.3	79.9	92.4	76.7	76.3	83.0	85.5	75.0
ate or no prenatal care	5.6	6.6	7.1	4.2	1.0	6.0	6.2	4.1	3.5	7.1
moker 3	2.0	1.2	0.7	7.5	2.1	0.9	1.8	3.0	5.5	1.3
Prinker 4	0.4	0.3	0.2	0.7	*	0.2	0.5	0.5	0.9	0.3
Veight gain of less than 16 lbs 5	13.3	15.6	17.3	14.0	7.6	12.5	12.6	10.6	9.1	15.
fedian weight gain 5	29.0	27.6	26.1	30.3	32.0	30.0	30.1	30.2	30.6	29.
Sesarean delivery rate	23.8	23.4	22.4	24.9	37.1	25.5	25.6	24.3	23.0	28.
Infant	•									
Preterm births 6	10.7	10.9	10.7	13.4	10.6	11.2	11.1	10.5	9.4	14.0
Birthweight		4.0	4.0	4.0	4.0	1.0	4.0		4.0	~
Very low birthweight 7 Low birthweight 8	1.1	1.0	1.0	1.8	1.3	1.2	1.0	1.3	1.0	2.5
4 000 grane of more	6.5	5.9	5.6	9.0	6.4	6.4	6.5	7.3	6.0	9.7
4,000 grams or more 9	8.6	9.2	9.5	6.9	10.4	8.7	8.1	7.8	10.8	8.0
5-minute Apgar score of less than 7 10	1.1	1.0	1.1	1.2	0.7	0.9	0.7	1.1	0.9	1

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Figure does not meet standards of reliability or precision; based on fewer than 20 births in the numerator. Includes origin not stated.

Includes races other than white and black.

Excludes data for California which did not report tobacco use on the birth certificate.

Excludes data for California, which did not report alcohol use on the birth certificate.

Excludes data for California, which did not report weight gain on the birth certificate.

Median weight gain shown in pounds. Born prior to 37 completed weeks of gestation.

Birthweight of less than 1,500 grams (3 lb 4 oz).

Birthweight of less than 2,500 grams (5 lb 8 oz).

Equivalent to 8 lb 14 oz.

Excludes data for California and Texas, which did not report 5-minute Apgar score on the birth certificate.

Table 26. Live births to mothers with selected medical risk factors and rates by age of mother, by race of mother: United States, 2001

[Rates are number of live births with specified medical risk factor per 1,000 live births in specified group]

Ada alta a Lafada da aba u a una	AII	Medical				Age of mothe	∍r			- Not
Medical risk factor and race of mother	All births ¹	risk factor reported	All ages	Under 20 years	20-24 years	25-29 years	30-34 years	35-39 years	40-54 years	stated ²
All races ³										
Anemia	4,025,933	99,558	25.0	36.0	30.2	22.9	19.6	19.0	19.8	37,388
Cardiac disease	4,025,933	20,698	5.2	2.7	3.6	4.9	6.6	8.2	9.5	37,388
Acute or chronic lung disease	4,025,933	48,246	12.1	14.7	13.2	11.5	10.7	11.3	11.9	37,388
Diabetes	4,025,933	124,242	31.1	9.2	17.8	30.3	41.3	55.6	71.7	37,388
Genital herpes 4	3,660,523	33,560	9.3	6.2	8.1	8.8	10.6	12.4	12.3	35,734
Hydramnios/Oligohydramnios	4,025,933	54,694	13.7	14.9	13.9	13.2	13.2	14.1	16.1	37,388
Hemoglobinopathy	4,025,933	3,141	0.8	1.0	0.9	0.7	0.7	0.7	8.0	37,388
Hypertension, chronic	4,025,933	32,232	8.1	2.9	4.7	7.3	10.0	15.1	25.0	37,388
Hypertension, pregnancy-associated	4,025,933	150,329	37.7	42.3	37.2	37.3	35.4	37.6	47.7	37,388
Eclampsia	4,025,933	12,627	3.2	4.3	3.2	2.9	2.7	3.2	4.2	37,388
Incompetent cervix	4,025,933	11,251	2.8	1.4	2.1	2.7	3.5	4.3 17.5	4.6	37,388
Previous infant 4000+ grams	4,025,933	41,313	10.4	1.3	5.8	10.8	14.7	17.5	20.2	37,388
Previous preterm or small-for-	4,025,933	48,318	12.1	4.6	11.7	13.1	13.0	15.3	16.2	37,388
gestational-age infant	4,025,933	12,045	3.0	3.0	3.4	3.1	2.8	2.5	2.3	37,388
Rh sensitization 5	3,987,064	26,933	6.8	5.7	6.4	6.9	7.5	7.4	7.3	39,545
Uterine bleeding 4	3,660,523	21,324	5.9	4.1	5.2	5.9	6.7	7.0	8.3	35,734
White	0,000,020	,	0.0	•••		0.0			0.0	33,1
Wille										
Anemia	3,177,626	69,462	22.1	32.0	26.5	20.4	18.0	17.3	18.1	29,977
Cardiac disease	3,177,626	17,330	5.5	2.7	3.7	5.1	7.0	8.7	10.0	29,977
Acute or chronic lung disease	3,177,626	36,476	11.6	13.3	12.3	11.2	10.7	11.2	11.9	29,977
Diabetes	3,177,626	94,541	30.0	9.4	17.6	28.8	38.6	51.4	67.2	29,977
Genital herpes 4	2,865,647	26,236	9.2	5.6	7.3	8.5	11.0	13.3	13.6	28,520
Hydramnios/Oligohydramnios	3,177,626	41,625	13.2	14.5	13.5	12.7	12.6	13.6	15.2	29,977
Hemoglobinopathy	3,177,626	1,122	0.4	0.3	0.3	0.3	0.4	0.5	0.4	29,977
Hypertension, chronic	3,177,626	22,078	7.0	2.5	4.1	6.5	8.5	12.4	19.6	29,977
Hypertension, pregnancy-associated	3,177,626	119,710	38.0	41.4	38.0	38.3	35.8	37.2 3.0	47.2	29,977 29,977
Eclampsia	3,177,626 3,177,626	9,250 7,718	2.9 2.5	3.8 1.2	2.9 1.7	2.8 2.2	2.6 3.1	3.0	4.0 4.2	29,977
Previous infant 4000+ grams	3,177,626	36,813	2.5 11.7	1.4	6.5	12.0	16.1	19.3	22.6	29,977
Previous preterm or small-for-	3,177,020	30,013	11.7	1.4	0.5	12.0	10.1	10.0	22.0	20,077
gestational-age infant	3,177,626	37,228	11.8	4.2	11.2	12.6	12.8	15,1	16.0	29.977
Renal disease	3,177,626	10,328	3.3	3.4	3.8	3.4	3.0	2.7	2.5	29.977
Rh sensitization ⁵	3,143,004	24,456	7.9	6.7	7.3	7.9	8.5	8.4	8.6	31,842
Uterine bleeding 4	2,865,647	17 834	6.3	4.6	5.7	6.2	6.9	7.2	8.5	28,520
Black		,								
	200 454	20.04=			40.0		00.7	04.0	00.0	4.04.4
Anemia	606,156	23,947	39.8	44.7	43.6	37.8	33.7	31.8	32.2	4,214
Cardiac disease	606,156	2,472	4.1	2.7	3.5	4.4	5.2	6.2	8.8	4,214
Acute or chronic lung disease	606,156	9,844	16.4	18.9	17.1	15.5	14.2	14.1	14.2 82.2	4,214 4,214
Diabetes	606,156 565,406	17,232 6,243	28.6 11.1	7.8 8.0	16.9 11.3	31.7 13.0	48.3 12.4	66.1 10.4	82.2 8.6	4,214
Genital herpes ⁴	565,406 606,156	6,243 9,653	16.0	8.0 16.1	15.0	15.4	17.2	17.8	8.6 22.4	4,073 4,214
Hemoglobinopathy	606,156	1,864	3.1	3.0	3.1	3.2	3.0	3.0	3.6	4,214
Hypertension, chronic	606,156	8,810	14.6	3.0 4.1	7.4	3.2 14.1	25.0	38.4	64.5	4,214
Hypertension, pregnancy-associated	606,156	24,433	40.6	45.4	35.6	38.5	42.4	48.1	56.5	4,214
Eclampsia	606,156	2.813	4.7	5.8	4.3	4.1	4.5	4.9	6.6	4,214
Incompetent cervix	606,156	3,036	5.0	1.9	3.6	6.3	7.9	8.6	8.0	4,214
Previous infant 4000+ grams	606,156	2,765	4.6	0.8	3.0	5.9	7.9	8.7	8.8	4,214
Previous preterm or small-for-	000 1==		4			44.	4-0	40.0	4	4000
gestational-age infant	606,156	8,741	14.5	5.4	14.1	18.4	17.9	19.3	17.5	4,214
Renal disease	606,156	1,223	2.0	2.0	2.1	2.1	1.9	1.7		4,214
Rh sensitization 5	603,375	1,966	3.3	3.3	3.3	3.4 4.4	3.1	3.7	2.6	4,463 4,073
Uterine bleeding 4	565,406	2,299	4.1	3.1	3.6	4.4	5.3	4.8	6.4	4,073

¹ Total number of births to residents of areas reporting specified medical risk factor.
2 No response reported for the medical risk factor item.
3 Includes races other than white and black.
4 Texas does not report this risk factor.

NOTE: Race and Hispanic origin are reported separately on birth certificates. In this table all women (including Hispanic women) are classified only according to their race; see Technical notes.



Texas does not report this risk factor.
Kansas does not report this risk factor.

Table 27. Number and rate of live births to mothers with selected medical risk factors, complications of labor, and obstetric procedures, by detailed race of mother: United States, 2001

[Rates are number of live births with specified risk factors, complications, or procedures per 1,000 live births in specified group]

Medical risk factor, complication, and	All races	White	Dir -t-	American			Asian or Pag	cific Islander		
obstetric procedure	All races	wnite	Black	Indian ¹	Total	Chinese	Japanese	Hawaiian	Filipino	Other
					Num	nber			_	
Medical risk factors										
Anemia	99,558	69,462	00.047	0.000	0.007	040				
Diabetes	124,242	94,541	23,947 17,232	2,282 2,235	3,867 10,234	348 1,635	147 340	295 321	533 1.750	2,544 6.188
Hypertension, pregnancy-associated	150,329	119,710	24,433	1,963	4,223	412	199	290	1,750	2,294
Uterine bleeding 2	21,324	17,834	2,299	252	939	120	61	41	159	558
Complications of labor and/or delivery										
Meconium,moderate/heavy	206,123	151,345	41,937	2,115	10.726	1,616	432	421	1.885	6,372
Premature rupture of membrane	95,129	72,234	16,773	1,337	4,785	656	269	189	850	2.821
Dysfunctional labor	112,268	88,782	15,283	1,551	6,652	1,394	323	252	1,017	3,666
Breech/Malpresentation	153,141	125,809	18,533	1,656	7,143	1,149	369	289	1,148	4,188
Cephalopelvic disproportion	66,060	53,436	7,653	659	4,312	725	159	99	769	2,560
Fetal distress ³	140,617	104,731	27,180	1,431	7,275	978	374	288	1,083	4,552
Obstetric procedures										
Amniocentesis	87,927	71,930	8,701	538	6,758	1,824	765	232	1,040	2,897
Electronic fetal monitoring	3,397,544	2,685,098	517,061	34,488	160,897	25,092	6,892	4,733	25,478	98,702
Induction of labor	819,924	680,846	102,847	8,400	27,831	3,912	1,363	1,000	3,918	17,638
Ultrasound	2,696,063	2,162,694	372,493	25,965	134,911	22,313	6,527	4,238	21,689	80,144
Stimulation of labor	702,660	561,467	97,216	6,772	37,205	6,159	1,772	1,054	5,362	22,858
				<u></u>	Ra	te				
Medical risk factors										
Anemia	25.0	22.1	39.8	55.4	19.6	44.0	40.4	40.0	40.0	04.0
Diabetes	31.1	30.0	28.6	54.3	51.7	11.2 52.5	16.4 37.9	46.6 50.7	16.6 54.5	21.3 51.9
Hypertension, pregnancy-associated	37.7	38.0	40.6	47.7	21.4	13.2	22.2	50.7 45.8	32.0	19.2
Uterine bleeding 2	5.9	6.3	4.1	6.2	5.0	4.0	7.0	6.6	5.1	5.1
Complications of labor and/or delivery										
Meconium,moderate/heavy	51.5	47.9	69.5	51.3	54.0	51.7	48.1	66.2	58.5	53.3
Premature rupture of membrane	23.8	22.9	27.8	32.4	24.1	21.0	29.9	29.7	26.4	23.6
Dysfunctional labor	28.1	28.1	25.3	37.6	33.5	44.6	36.0	39.6	31.6	30.6
Breech/Malpresentation	38.3	39.8	30.7	40.2	36.0	36.7	41.1	45.5	35.6	35.0
Cephalopelvic disproportion	16.5	16.9	12.7	16.0	21.7	23.2	17.7	15.6	23.9	21.4
Fetal distress ³	38.7	36.8	48.3	35.5	39.0	32.7	42.9	45.9	34.9	41.1
Obstetric procedures										
Amniocentesis	21.9	22.7	14.4	13.0	34.0	58.2	84.9	36.4	32.2	24.2
Electronic fetal monitoring	847.9	849.0	855.6	834.9	808.9	800.9	764.8	743.2	789.6	823.0
Induction of labor	204.6	215.3	170.2	203.3	139.9	124.9	151.3	157.0	121.4	147.1
Ultrasound	672.8	683.8	616.4	628.5	678.3	712.2	724.3	665.5	672.2	668.3
Stimulation of labor	175.4	177.5	160.9	163.9	187.1	196.6	196.6	165.5	166.2	190.6

NOTE: Race and Hispanic origin are reported separately on birth certificates. In this table all women (including Hispanic women) are classified only according to their race; see Technical notes.



Includes births to Aleuts and Eskimos.
 Texas does not report this risk factor.
 Texas does not report this complication.

Table 28. Number and rate of live births to mothers with selected medical risk factors, complications of labor, and obstetric procedures, by Hispanic origin of mother and by race for mothers of non-Hispanic origin: United States, 2001

[Rates are number of live births with specified risk factors, complications, or procedures per 1,000 live births in specified group]

						Origin of mo	ther	_		
Medical risk factor, complication,				His	panic	<u> </u>		No	on-Hispanic	
and obstetric procedure	All origins ¹	Total	Mexican	Puerto Rican	Cuban	Central and South American	Other and unknown Hispanic	Total ²	White	Black
		_			-	Number		_	:	
Medical risk factors										
								70.500	477.000	00.00
Anemia	99,558	22,163	15,084 17,953	2,234 2,153	317 301	2,337 3,623	2,191 1.681	76,598 97,839	47,388 69.014	23,36: 16,72
Diabetes	124,242 150,329	25,711 22,154	14,974	1,803	370	3,327	1,680	127,277	97.457	23,93
Hypertension, pregnancy-associated Iterine bleeding ³	21,324	2,680	1,610	405	34	391	240	18,447	15,096	2,22
Complications of labor and/or delivery							•			
Meconium,moderate/heavy	206,123	48,696	34,687	3,089	508	7,746	2,666	. 156,225	103,026	40,88
Premature rupture of membrane	95,129	15,550	10,380	1,490	201	2,424	1,055	78,340	56,057	16,37
Dysfunctional labor	112,268	20,345	12,622	1,913	525	3,473	1,812	91,251	68,529	14,76
Breech/Malpresentation	153,141	25,082	16,942	2,070	422	3,947	1,701	127,034 55,012	100,5 <u>7</u> 7 42,716	18,00 7,46
Cephalopelvic disproportion		10,682	7,673 12,338	771 2,257	181 347	1,506 3,593	551 1,433	119,830	84,850	26,57
etal distress ⁴	140,617	19,968	12,336	2,237	347	3,393	1,433	119,000	04,030	20,57
Obstetric procedures							•			
Amniocentesis	87,927	8,802	4,373	1,069	321	2,204	835	78,383	62,859	8,40
Electronic fetal monitoring		692,362	491,422	49,647	11,989	99,042	40,262	2,686,869	1,994,791	503,51
nduction of labor		114,801	77,889	9,582	2,542		8,748	700,459	565,014	100,53
Jitrasound		502,183	347,031	39,432	8,233		31,919	2,178,698	1,661,703	361,80
Stimulation of labor	702,660	135,006	93,064	11,868	1,989	20,539	7,546	563,876	426,905	94,29
						Rate .				
Medical risk factors						-				
Anemia	25.0	26.2	24.9	39.1	22.7	19.5	46.2	24.6	20.6	39.9
Diabetes		30.4	29.6	37.7	21.5	30.2	35.4	31.4	30.0	28.5
Hypertension, pregnancy-associated		26.2	24.7	31.6	26.5	27.7	35.4	40.8	42.3	40.9
Uterine bleeding ³	5.9	4.0	3.5	7.2	2.5	3.5	6.2	6.3	7.0	4.1
Complications of labor and/or delivery										
Meconium,moderate/heavy		57.3	56.9	54.0	36.3	64.1	56.0	49.9	44.6	69.6
Premature rupture of membrane		18.3	17.0	26.0	14.4	20.1	22.2	25.0	24.3	27.9
Dysfunctional labor		24.0	20.7	33.4	37.5	28.7	38.0	29.2	29.7	25.1
Breech/Malpresentation		29.5	27.8	36.2	30.2	32.7	35.7 11.6	40.6 17.6	43.5 18.5	30.7 12.7
Cephalopelvic disproportion Fetal distress ⁴		12.6 29.5	12.6 27.1	13.5 40.2	12.9 25.3	12.5 32.2	37.1	40.8	39.1	48.6
Obstetric procedures	00									
Amniocentesis	21.9	10.4	7.2	18.7	22.9	18.2	17.5	25.0	27.2	14.3
Electronic fetal monitoring		814.8	805.8	866.9	855.9	818.7	844.1	857.5	862.0	856.1
Induction of labor		135.1	127.7	167.3	181.5	132.6	183.4	223.5	244.2	170.9
Ultrasound		591.0	569.1	688.6	587.8	624.7	669.2	695.3	718.1	615.1
Stimulation of labor		158.9	152.6	207.2	142.0	169.8	158.2	180.0	184.5	160.3

NOTE: Race and Hispanic origin are reported separately on birth certificates. Persons of Hispanic origin may be of any race. In this table Hispanic women are classified only by place of origin; non-Hispanic women are classified by race. See Technical notes.



Includes origin not stated.
Includes races other than white and black.
Texas does not report this risk factor.
Texas does not report this complication.

Table 29. Number of live births by smoking status of mother, percent smokers, and percent distribution by average number of cigarettes smoked by mothers per day, according to age and race of mother: Total of 49 reporting States and the District of Columbia, 2001

					Age of m	nother				
Smoking status, smoking		Undo- 45		15-19 years		00.04	05.00	00.01	05.65	40.71
measure, and race of mother	All ages	Under 15 years	Total	15-17 years	18-19 years	20-24 years	25-29 years	30-34 years	35-39 years	40-54 years
					Num	ber				
All races ¹										
Total	3,498,174	6,972	392,937	128,010	264,927	898,300	921,714	814,648	382,826	80,77
Smoker Nonsmoker Not stated	416,476 3,056,512 25,186	417 6,505 50	68,343 321,958 2,636	18,295 108,795 920	50,048 213,163 1,716	151,828 740,641 5,831	94,571 820,775 6,368	61,293 747,090 6,265	32,565 347,023 3,238	7,45 72,52 79
White										
Total	2,749,388	3,441	273,364	84,382	188,982	674,889	740,024	677,274	314,932	65,46
Smoker Nonsmoker Not stated	353,635 2,375,662 20,091	315 3,091 35	58,577 212,931 1,856	15,530 68,231 621	43,047 144,700 1,235	129,233 541,233 4,423	80,678 654,217 5,129	52,161 619,868 5,245	26,765 285,450 2,717	5,90 58,87 68
Black										
Total	572,382	3,329	105,943	39,244	66,699	189,244	129,541	88,306	45,429	10,590
Smoker Nonsmoker Not stated	51,395 517,606 3,381	85 3,232 12	7,549 97,821 573	2,099 36,919 226	5,450 60,902 347	18,562 169,633 1,049	11,284 117,494 763	7,574 80,148 584	4,977 40,128 324	1,364 9,150 76
					Percent s	mokers				
Total ¹	12.0	6.0	17.5	14.4	19.0	17.0	10.3	7.6	8.6	9.3
WhiteBlack	13.0 9.0	9.2 2.6	21.6 7.2	18.5 5.4	22.9 8.2	19.3 9.9	11.0 8.8	7.8 8.6	8.6 11.0	9.1 13.0
					Percent dis	tribution ²			_	
All races ¹										
Smoker	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1-5 cigarettes	31.3	56.5	39.4	43.8	37.9	32.3	28.3	27.3	26.7	26.2
6-10 cigarettes11-15 cigarettes	41.5 5.8	32.6	41.7 4.2	40.5 3.7	42.1 4.4	42.8 5.1	41.7 6.4	40.2 7.2	38.5 7.4	36.2 7.4
16-20 cigarettes	18.5	8.6	13.1	10.6	13.9	17.4	20.4	21.6	22.7	24.5
21-30 cigarettes31-40 cigarettes	2.1 0.7		1.2 0.3	1.0	1.2 0.4	1.7	2.4	2.7	3.3	3.8
41 cigarettes or more	0.1	•	0.3	0.3	0.1	0.6 0.1	0.8 0.1	1.0 0.2	1.3 0.2	1.5
White										
Smoker	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1-5 cigarettes	28.0	51.5	35.9	40.0	34.4	28.6	25.2	24.6	23.7	22.9
6-10 cigarettes	42.5	36.5	43.6	42.9	43.9	44.3	42.3	40.3	38.3	35.8
11-15 cigarettes 16-20 cigarettes	6.3 20.0	0.5	4.6 14.2	4.0 11.6	4.8 15.2	5.6	6.9	7.8	8.1	8.1
21-30 cigarettes	2.3	9.5	1.3	1.1	1.3	19.0 1.9	22.0 2.6	23.2 3.0	24.5 3.7	26.8 4.3
31-40 cigarettes	0.8	•	0.4	0.3	0.4	0.6	0.8	1.0	1.4	1.8
11 cigarettes or more	0.1	•	0.1	•	0.1	0.1	0.1	0.2	0.2	•
Black	400.0	4								
Smoker	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1-5 cigarettes 3-10 cigarettes	50.6 35.6	73.6	63.3 28.4	68.1 24.9	61.5 29.8	54.5 34.2	46.9 37.9	42.9	40.0 39.6	39.5
I 1-15 cigarettes	2.7	•	1.8	1.7	1.8	2.1	2.9	39.5 3.4	39.6	37.7 4.5
16-20 cigarettes	9.8	•	5.5	4.8	5.8	8.2	10.6	12.5	14.4	15.7
21-30 cigarettes	0.9	:	0.7	•	0.8	0.6	1.1	1.0	1.2	2.0
31-40 cigarettes41 cigarettes or more	0.4	:	:	:	:	0.4	0.4	0.5	0.8	
7 . Jugaronoo or more	0.1			_	_	-	-	-	-	•

NOTE: Excludes data for California, which did not require reporting of tobacco use during pregnancy. Race and Hispanic origin are reported separately on birth certificates. In this table all women (including Hispanic women) are classified only according to their race; see Technical notes.



^{*} Figure does not meet standards of reliability or precision; based on fewer than 20 births in the numerator.
1 Includes races other than white and black.
2 Excludes data for Indiana, New York State (but includes New York City), and South Dakota, which did not report average number of cigarettes smoked per day in standard

Table 30. Number of live births by smoking status of mother and percent of mothers who smoked cigarettes during pregnancy, by age and Hispanic origin of mother and by race for mothers of non-Hispanic origin: Total of 49 reporting States, and the District of Columbia, 2001

		Smoking	status						Age of mo	other				
Origin of mother							1	5-19 yea	s				. •	
Origin or mound	Total births	Smoker	Non- smoker	Not stated	All ages	Under 15 years	Total	15-17 years	18-19 years	20-24 years	25-29 years	30-34 years	35-39 years	40-54 years
				_				Р	ercent sr	nokers				
All origins ¹	3,498,174	416,476	3,056,512	25,186	12.0	6.0	17.5	14.4	19.0	17.0	10.3	7.6	8.6	9.3
Hispanic	590,780	18,900	568,225	3,655	3.2	2.0	4.0	3.5	4.2	3.8	2.6	2.5	3.0	3.6
Mexican Puerto Rican Cuban	382,352 55,517 13,248	8,975 5,382 391	370,663 49,901 12,833	2,714 234 24	2.4 9.7 3.0	1.6	2.9 9.7 6.3	2.6 7.9 8.7	3.0 10.8 5.0	2.7 11.5 3.1	1.9 9.0 2.4	· 1.8 8.0 2.2	2.5 8.7 3.6	3.1 9.7
Central and South American Other and unknown	96,231	1,240	94,603	388	1.3	•	1.8	1.7	1.9	1.5	1.0	1.0	1.4	1.8
Hispanic	43,432	2,912	40,225	295	6.8	•	7.6	6.6	8.3	8.0	6.2	5.5	5.1	6.4
Non-Hispanic ²	2,886,251	394,660	2,471,513	20,078	13.8	7.6	21.8	18.4	23.3	20.4	11.9	8.3	9.3	10.1
WhiteBlack	2,159,553 557,366	333,368 50,602	1,810,861 503,573	15,324 3,191	15.5 9.1	18.5 2.5	30.5 7.2	28.6 5.4	31.2 8.2	24.9 9.9	13.2 8.9	8.7 8.8	9.5 11.2	10.0 13.2

^{*} Figure does not meet standards of reliability or precision; based on fewer than 20 births in the numerator.

1. Includes origin not stated.

NOTES: Excludes data for California, which did not require reporting of tobacco use during pregnancy. Race and Hispanic origin are reported separately on birth certificates. Persons of Hispanic origin may be of any race. In this table Hispanic women are classified only by place of origin; non-Hispanic women are classified by race. See Technical notes.



¹ Includes origin not stated.
2 Includes races other than white and black.

Table 31. Number of live births, percent of mothers who smoked cigarettes during pregnancy, and percent distribution of average number of cigarettes smoked by mothers per day, according to educational attainment and race and Hispanic origin of mother: Total of 49 reporting States, and the District of Columbia, 2001

Smoking measure, and	_		Ye	ars of school comp	eleted by mother		
race and Hispanic origin of mother	Total	0-8 years	9-11 years	12 years	13-15 years	16 years or more	Not Stated
-		<u> </u>		All births			
All races ¹	3,498,174	177,652	529,715	1,104,535	755,441	883,453	47,378
White, total White, non-Hispanic Black, total Black, non-Hispanic Hispanic Black	2,749,388 2,159,553 572,382 557,366 590,780	156,721 36,744 14,251 13,248 121,078	380,470 226,984 128,480 125,237 155,638	831,330 659,717 224,048 218,440 174,010	593,031 516,605 128,090 125,113 76,826	754,399 702,521 67,610 66,058 49,485	33,437 16,982 9,903 9,270 13,743
·		_	P	ercent smokers			
Total	12.0	8.9	24.8	16.4	9.2	1.9	11.0
White, total White, non- Hispanic Black, total Black, total Black, non-Hispanic Hispanic ²	13.0 15.5 9.0 9.1 3.2	8.8 31.9 10.4 10.8 1.7	27.9 43.2 16.9 17.1 5.0	18.8 22.7 8.8 8.9 3.4	10.3 11.3 5.2 5.2 2.9	2.0 2.1 1.5 1.5	11.5 17.7 11.7 11.6 3.3
	•,		Per	cent distribution 3			
All races ¹			•				-
Smoker	100.0	100.0	100.0	100.0	100.0	100.0	100.0
10 cigarettes or less 11-20 cigarettes 21 cigarettes or more	72.8 24.3 2.9	68.0 27.2 4.8	72.7 24.1 3.2	72.3 24.9 2.8	74.1 23.5 2.4	77.9 20.2 1.9	74.2 22.6 3.2
White, total							
Smoker	100.0	100.0	100.0	100.0	100.0	100.0	100.0
10 cigarettes or less	70.5 26.3 3.1	65.9 28.9 5.2	69.6 26.8 3.5	70.1 26.8 3.0	72.5 24.9 2.6	77.0 21.1 1.9	72.2 24.1 3.6
White, non-Hispanic							
Smoker	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0 cigarettes or less 1-20 cigarettes 11 cigarettes or more	69.7 27.1 3.2	62.7 31.7 5.6	68.4 28.0 3.7	69.6 27.3 3.1	72.0 25.3 2.7	76.8 21.3 2.0	69.6 26.5 4.0
Black, total							
Smoker	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0 cigarettes or less	86.2 12.4 1.4	83.7 13.9 2.4	86.0 12.4 1.6	86.7 12.1 1.3	86.4 12.6 1.0	87.6 11.5	79.2 18.3 2.5
Black, non-Hispanic							
Smoker	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0 cigarettes or less	86.2 12.4 1.4	83.7 13.9 2.4	86.0 12.4 1.6	86.7 12.1 1.3	86.4 12.6 1.0	87.9 11.3	79.6 17.8 2.5
Hispanic ²							
Smoker	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0 cigarettes or less	85.6 13.0 1.4	84.3 13.5 2.2	86.5 12.0 1.5	85.2 13.6 1.2	84.8 14.1 1.1	83.7 15.3	87.2 11.6

NOTE: Excludes data for California, which did not require reporting of tobacco use during pregnancy.



^{*} Figure does not meet standards of reliability or precision; based on fewer than 20 births in the numerator.

1 includes races other than white and black and origin not stated.
2 includes all persons of Hispanic origin of any race.
3 Excludes data for Indiana, New York State (but includes New York City), and South Dakota, which did not report average number of cigarettes smoked per day in standard categories.

Table 32. Percent low birthweight by smoking status, age, and race and Hispanic origin of mother: Total of 49 reporting States, and the District of Columbia, 2001

[Low birthweight is defined as weight of less than 2,500 grams (5 lb 8 oz)]

						Age of mothe	<u></u>			
Smoking status and	A II	11.4.45		15-19 years		- 20.24	25.20	20.24	35-39	40-54
race of mother	All ages	Under 15 years	Total	15-17 years	18-19 years	20-24 years	25-29 years	30-34 years	years	years
All races 1										
otal	7.9	13.3	9.8	10.6	9.4	8.0	7.0	7.2	8.6	10.8
Smoker	11.9	14.0	11.3	11.8	11.1	10.6	11.3	13.2	16.7	19.7
lonsmoker	7.3	13.2	9.4	10.3	8.9	7.4	6.5	6.7	7.8	9.9
ot stated	10.1	•	14.1	14.5	13.9	9.4	9.2	9.2	11.4	12.2
White, total										
otal	6.8	10.8	8.3	9.1	7.9	6.8	6.1	6.4	7.7	9.8
moker	10.8	11.8	10.7	11.3	10.4	9.8	10.3	11.7	14.6	16.7
lonsmoker	6.2	10.7	7.6	8.5	7.2	6.0	5.6	5.9	7.0	9.1
lot stated	8.8	•	12.1	13.4	11.5	7.8	8.0	7.9	10.2	11.6
White, non-Hispanic										
otal	6.8	11.6	8.5	9.3	8.1	6.9	6.1	6.4	7.6	9.7
Smoker	10.7	12.3	10.6	11.2	10.3	9.8	10.2	11.5	14.5	16.2
Ionsmoker	6.1	11.5	7.5	8.5	7.1	5.9	5.5	5.9	6.8	8.9
lot stated	8.7	•	11.4	11.8	11.3	8.1	8.0	7.9	10.4	10.8
Black, total										
otal	13.0	16.0	13.7	14.0	13.5	12.5	12.0	13.0	15.4	17.4
Smoker	19.9	•	16.6	16.6	16.5	16.7	19.0	24.3	28.4	32.6
lonsmoker	12.3	15.9	13.4	13.8	13.2	12.0	11.3	11.9	13.7	15.1
lot stated	18.2	•	21.4	19.6	22.5	15.3	17.8	20.6	19.8	•
Black, non-Hispanic										
Total	13.1	16.0	13.7	14.1	13.6	12.6	12.1	13.2	15.6	17.6
Smoker	19.9		16.6	16.8	16.6	16.7	19.0	24.3	28.7	32.8
lonsmoker	12.4	15.9	13.5	13.9	13.2	12.1	11.4	12.1	13.9	15.4
lot stated	17.9	•	21.5	19.6	22.8	14.9	16.8	20.9	19.8	•
Hispanic ²										
otal	6.8	10.2	8.0	8.7	7.6	6.5	6.0	6.6	8.3	10.5
Smoker	11.9	•	11.9	11.4	12.1	10.5	10.7	14.4	15.6	22.4
lonsmoker	6.6	10.1	7.8	8.6	7.4	6.3	5.8	6.4	8.1	10.0
lot stated	8.8	•	13.5	15.7	12.0	7.5	7.2	7.6	9.1	*

^{*} Figure does not meet standards of reliability or precision; based on fewer then 20 births in the numerator.

1 Includes races other than white and black and origin not stated.

2 Includes all persons of Hispanic origin of any race.

NOTE: Excludes data for California, which did not require reporting of tobacco use during pregnancy.



Table 33. Live births by month of pregnancy prenatal care began and percent of mothers beginning care in the first trimester and percent with late or no care, by age and race and Hispanic origin of mother: United States, 2001

• • • • •				Month of	pregnancy p	renatal care	began				
Age and race and Hispanic origin of mother	All births		1st trimester		2d trimester	L	ate or no care		Not	Perce	ent
		Total	1st and 2d months	3d month	4th-6th months	Total	7th-9th months	No care	stated	1st trimester	Late or no care
All races 1	4,025,933	3,276,902	2,534,944	741,958	506,668	147,380	105,662	41,718	94,983	83.4	3.
Under 15 years	7,781	3,543	2,189	1,354	2,651	1,247	904	343	340	47.6	16.8
15-19 years	445,944	300,892	205,917	94,975	102,285	30,067	21,797	8,270	12,700	69.5	6.9
15 years	20,150	11,074	6,992	4,082	6,236	2,111	1,534	577	729	57.0	10.9
16 years	45,367	27,566	18,038	9,528	12,483	3,838	2,812	1,026	1,480	62.8	8.
17 years	79,807	52,061	34,790	17,271	19,529	5,909	4,248	1,663	2,308	67.2	7.0
18 years	126,361	86,451	59,486	26,965	28,444	7,931	5,686	2,245	3,535	70.4	6.9
19 years	174,259	123,740	86,611	37,129	35,593	10,278	7,519	2,759	4,648	73.0	6.
20-24 years	1,021,627	778,394	574,767	203,627	168,349	48,565	35,216	13,349	26,319	78.2	4.9
25-29 years	1,058,265	891,451	702,633	188,818	111,616	31,791	22,993	8,798	23,407	86.1	3.
30-34 years	942,697	827,871	669,956	157,915	73,992	21,191	14,965	6,226	19,643	89.7	2.3
35-39 years	451,723	392,799	315,096	77,703	37,653	11,282	7,627	3,655	9.989	88.9	2.6
40 years and over	97,896	81,952	64,386	17,566	10,122	3,237	2,160	1,077	2,585	86.0	3.4
White, total	3,177,626	2,648,763	2,064,013	584,750	361,527	99,215	72,661	26,554	68,121	85.2	3.2
Under 15 years	4,095	2,069	1,289	780	1,270	594	417	177	162	52.6	15.1
15-19 years	318,563	222,483	153,040	69.443	68,177	19,429	14,369	5,060	8,474	71.7	6.3
15 years	12,584	7,363	4,701	2,662	3,585	1,209	889	320	427	60.6	9.9
16 years	30,510	19,470	12,894	6,576	7,767	2,359	1,742	617	914	65.8	8.0
17 years	56,098	38,000	25,571	12,429	12,706	3,860	2,837	1.023	1,532	69.6	7.1
18 years	91,284	64,425	44,478	19,947	19,302	5,190	3,809	1,381	2,367	72.5	5.8
19 years	128,087	93,225	65,396	27,829	24,817	6,811	5,092	1,719	3,234	74.7	5.5
20-24 years	779,529	608,175	450,925	157,250	119,775	32,889	24,359	8,530	18,690	79.9	4.3
25-29 years	850,343	728,874	577,540	151,334	82,298	22,150	16,328	5,822	17,021	87.5	2.7
30-34 years	777,294	693,396	564,369	129,027	54,921	14,448	10,384	4,084	14,529	90.9	1.9
35-39 years	368,816	326,299	263,455	62,844	27,683	7,497	5,289	2,208	7,337	90.3	2.1
40 years and over	78,986	67,467	53,395	14,072	7,403	2,208	1,515	693	1,908	87.5	2.9
White, non-Hispanic	2,326,578	2,022,737	1,605,473	417,264	210,946	51,221	37,808	13,413	41,674	88.5	2.2
Under 15 years	1,581	804	500	304	500	222	148	74	55	52.7	14.5
15-19 years	190,161	140,213	97,220	42,993	36,857	8,905	6,767	2,138	4,186	75.4	4.8
15 years	5,765	3,552	2,295	1,257	1,581	466	366	100	166	63.4	8.3
16 years	15,538	10,461	6,933	3,528	3,721	981	757	224	375	69.0	6.5
17 years	31,409	22,464	15,161	7,303	6,533	1,684	1,252	432	728	73.2	5.5
18 years	55,409	41,276	28,764	12,512	10,528	2,450	1,840	610	1,155	76.1	4.5
19 years	82,040	62,460	44,067	18,393	14,494	3,324	2,552	772	1,762	77.8	4.1
20-24 years	523,027	426,610	320,657	105,953	69,351	16,627	12,519	4,108	10,439	83.2	3.2
25-29 years	622,361	554,911	448,049	106,862	46,082	11,107	8,231	2,876	10,261	90.7	1.8
30-34 years	625,435	572,676	472,522	100,154	34,483	8,201	5,882	2,319	10,075	93.1	1.3
35-39 years	300,007	271,536	221,737	49,799	18,545	4,675	3,260	1,415	5,251	92.1	1.6
10 years and over	64,006	55,987	44,788	11,199	5,128	1,484	1,001	483	1,407	89.4	2.4
Black, total	606,156	436,504	325,221	111,283	111,414	38,243	24,927	13,316	19,995	74.5	6.5
Under 15 years	3,455	1,378	849	529	1,300	610	448	162	167	41.9	18.6
15-19 years	110,843	68,742	46,714	22,028	29,275	9,148	6,257	2,891	3,678	64.1	8.5
15 years	6,881	3,408	2,109	1,299	2,388	798	559	239	287	51.7	12.1
16 years	13,183	7,226	4,637	2,589	4,172	1,288	922	366	497	57.0	10.2
17 years	20,778	12,466	8,225	4,241	5,860	1,769	1,185	584	683	62.0	8.8
18 years	30,516	19,303	13,277	6,026	7,856	2,341	1,578	763	1,016	65.4	7.9
19 years	39,485	26,339	18,466	7,873	8,999	2,952	2,013	939	1,195	68.8	7.7
20-24 years	199,221	140,158	102,679	37,479	39,839	12,943	8,686	4,257	6,281	72.6	6.7
25-29 years	137,400	105,444	81,255	24,189	20,485	7,112	4,559	2,553	4,359	79.3	5.3
30-34 years	94,660	74,516	58,311	16,205	12,092	4,803	2,970	1,833	3,249	81.5	5.3
35-39 years	49,065	37,824	29,119	8,705	6,604	2,839	1,558	1,281	1,798	80.0	6.0
10 years and over	11,512	8,442	6,294	2,148	1,819	788	449	339	463	76.4	7.1

See footnotes at end of table.



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Table 33. Live births by month of pregnancy prenatal care began and percent of mothers beginning care in the first trimester and percent with late or no care, by age and race and Hispanic origin of mother: United States, 2001 --Con.

				Month of	pregnancy p	enatal care	began				
Age and race and Hispanic origin	All births		1st trimester		2d trimester	La	ate or no care		Not	Perce	ent
of mother		Total	1st and 2d months	3d month	4th-6th months	Total	7th-9th months	No care	stated	1st trimester	Late or no care
Black, non-Hispanic	589,917	425,083	316,867	108,216	108,638	37,199	24,120	13,079	18,997	74.5	6.
Under 15 years	3,401	1,355	841	514	1,282	601	441	160	163	41.8	18.
15-19 years	108,252	67,179	45,651	21,528	28,636	8,914	6,093	2,821	3,523	64.1	8.
15 years	6,735	3,332	2,068	1,264	2,341	781	548	233	281	51.6	12.
16 years	12,879	7,056	4,523	2,533	4,095	1,254	899	355	474	56.9	10.
17 years	20,293	12,187	8,040	4,147	5,717	1,732	1,161	571	657	62.1	8.
18 years	29,794	18,861	12,974	5,887	7,686	2,282	1,537	745	965	65.4	7.
19 years	38,551	25,743	18,046	7,697	8,797	2,865	1,948	917	1,146	68.8	7.
20-24 years	194,391	136,879	100,328	36,551	38,909	12,608	8,425	4,183	5,995	72.7	6.
25-29 years	133,491	102,555	79,081	23,474	19,926	6,892	4,383	2,509	4,118	79.3	5.
30-34 years	91,710	72,244	56,593	15,651	11,727	4,663	2,852	1,811	3,076	81.5	5.
35-39 years	47,494	36,654	28,247	8,407	6,397	2,755	1,493	1,262	1,688	80.0	6.
40 years and over	11,178	8,217	6,126	2,091	1,761	766	433	333	434	76.5	7.
Hispanic ²	851,851	625,816	457,753	168,063	152,170	48,501	35,400	13,101	25,364	75.7	5.
Under 15 years	2,555	1,277	789	488	789	380	275	105	109	52.2	15.
15-19 years	130,007	63,273	56,531	26,742	31,792	10,706	7,736	2,970	4,236	66.2	8.
15 years	6,936	3,865	2,437	1,428	2,050	762	541	221	259	57.9	11.
16 years	15,165	9,131	6,037	3,094	4,115	1,399	999	400	520	62.3	9.
17 years	25,023	15,732	10,553	5,179	6,282	2,204	1,600	604	805	65.0	9.
18 years	36,298	23,420	15,918	7,502	8,886	2,804	2,014	790	1,188	66.7	8.
19 years	46,585	31,125	21,586	9,539	10,459	3,537	2,582	955	1,464	69.0	7.
20-24 years	258,431	182,794	131,116	51,678	51,080	16,460	12,040	4,420	8,097	73.0	6.
25-29 years	227,910	173,824	129,246	44,578	36,490	11,119	8,193	2,926	6,477	78.5	5.
30-34 years	150,352	119,389	90,659	28,730	20,539	6,276	4,579	1,697	4,148	81.7	4.
35-39 years	67,952	54,037	41,029	13,008	9,202	2,846	2,060	786	1,867	81.8	4.
40 years and over	14,644	11,222	8,383	2,839	2,278	714	517	197	430	79.0	5

 $^{^{1}\,}$ Includes races other than white and black and origin not stated. $^{2}\,$ Includes all persons of Hispanic origin of any race.



Table 34. Percent of mothers beginning prenatal care in the first trimester and percent of mothers with late or no prenatal care by race and Hispanic origin of mother: United States, each State and territory, 2001

[By place of residence]

		Percent b	eginning ca	re in first t	rimester				Percent late	¹ or no ca	ire	
-		Wh	ite	Bla	ack			Wh	nite	Bla	ick	
State	All races ²	Total	Non- Hispanic	Total	Non- Hispanic	Hispanic ³	All races ²	Total	Non- Hispanic	Total	Non- Hispanic	Hispanic ³
United States ⁴	83.4	85.2	88.5	74.5	74.5	75.7	3.7	3.2	2.2	6.5	6.5	5.9
Alabama	82.4	87.4	89.5	71.7	71.7	52.3	3.9	2.9	1.9	6.2	6.2	19.4
Alaska	80.5	84.2	84.3	82.3	83.2	82.2	4.5	3.3	3.3	٠.٤	U. <u>z</u>	3.8
Arizona	76.7	77.4	87.3	75.8	75.7	66.7	6.3	6.2	2.5	5.9	5.8	10.1
Arkansas	79.8	82.4	83.9	69.9	70.0	67.4	4.6	3.9	3.4	7.4	7.4	8.5
California	85.4	85.4	90.0	82.5	82.5	82.4	2.9	3.0	2.0	3.6	3.6	3.6
Colorado	79.8	80.2	87.3	72.7	72.5	65.1	4.7	4.6	2.5	7.0	7.0	8.8
Connecticut	88.7	89.7	92.4	81.9	82.1	78.5	1.9	1.7	1.2	3.3	3.1	3.8
Delaware	87.2	88.9	91.5	81.5	81.6	73.0	3.3	2.7	2.2	5.3	5.3	5.7
District of Columbia	74.4	84.2	90.8	68.7	68.7	70.9	7.9	3.7	2.7	10.1	10.2	5.9
Florida	84.1	87.0	89.3	75.1	75.0	81.7	3.4	2.6	1.9	5.7	5.7	4.3
Georgia	86.2	88.9	91.4	80.6	80.5	76.5	3.0	2.4	1.6	4.2	4.2	6.2
Hawaii	84.2	88.5	89.2	92.0	92.3	83.3	3.8	2.7	2.6	*	*	3.2
Idaho	81.8	82.0	84.0	81.0	80.6	69.5	3.7	3.7	3.1	*	*	7.1
Illinois	84.0	86.5	90.3	72.9	72.9	76.8	3.3	2.4	1.7	7.4	7.4	4.1
Indiana	80.6	82.1	83.7	68.9	68.8	63.2	3.7	3.3	2.9	7.3	7.2	7.9
lowa	88.4	88.9	89.8	79.0	79.1	74.7	2.3	2.1	2.0	5.8	5.7	4.7
Kansas	86.9	87.6	90.2	79.5	79.6	71.0	2.7	2.5	1.7	5.2	5.2	7.2
Kentucky	86.7	87.5	88.1	79.3	79.3	67.4	2.7	2.5	, 2.2	4.8	4.8	9.4
Louisiana	83.2	90.4	90.6	73.4	73.4	84.0	3.6	1.7	1.7	6.2	6.2	3.0
Maine	88.2	88.3	88.4	79.7	81.0	77.5	2.0	2.0	1.9	*	*	*
Maryland	83.7	87.7	89.6	76.5	76.5	72.6	3.7	2.5	2.0	6.2	6.1	5.8
Massachusetts	89.7	91.3	92.6	79.5	78.5	81.6	2.1	1.7	1.4	5.3	5.6	3.9
Michigan	84.5	87.8	89.1	69.3	69.2	71.2	3.6	2.5	2.3	8.9	9.0	5.5
Minnesota	84.5	87.1	89.1	66.5	66.5	62.8	2.7	2.0	1.6	7.2	7.2	7.3
Mississippi	82.7	89.3	89.8	74.9	74.9	71.2	3.3	1.8	1.6	5.1	5.1	7.2
Missouri	87.7	89.2	89.8	78.7	78.7	78.0	2.6	2.1	2.0	5.7	5.7	4.8
Montana	82.6	85.3	85.6	82.9	84.2	79.8	3.1	2.1	2.0	*	*	5.9
Nebraska	83.2	84.5	87.0	68.0	68.0	68.3	3.1	2.7	2.2	7.6	7.6	5.9
Nevada	75.7	76.3	85.9	67.6	67.6	62.8	7.4	7.3	3.6	10.2	10.1	12.4
New Hampshire	90.6	91.0	91.5	79.5	78.3	81.2	1.7	1.5	1.4	*	*	4.0
New Jersey	79.8	83.3	88.8	63.4	63.1	67.4	5.3	3.9	2.6	11.6	11.9	8.0
New Mexico	69.0	70.3	76.7	65.8	65.9	66.3	7.7	7.1	5.0	9.4	9.7	8.5
New York	80.5	83.9	87.8	70.3	70.2	73.2	5.2	4.0	2.9	9.0	9.0	7.1
North Carolina	84.4	87.3	90.9	75.9	75.9	69.9	3.1	2.4	1.5	5.2	5.2	6.7
North Dakota	85.8	88.4	88.7	78.4	79.2	78.1	2.4	1.6	1.5	*	*	*
Ohio	87.3	89.1	89.5	77.2	77.2	77.3	3.4	2.6	2.4	8.0	8.0	6.3
Oklahoma	77.4	79.5	81.5	69.2	69.3	65.4	5.4	4.7	4.1	8.2	8.2	9.5
Oregon	81.5	81.8	84.6	76.6	77.0	69.9	3.7	3.6	2.9	3.8	3.9	6.2
Pennsylvania Rhode Island	85.2 91.4	87.4 92.4	88.4 93.7	72.9 84.5	73.0 84.9	73.2 87.5	3.3 1.1	2.6 0.9	2.3 0.8	7.3 2.8	7.3 2.7	5.6
		02. T	00.7	04.5	04.5	67.5	1.1	0.9	0.8	2.0	2.7	1.4
South Carolina	79.2	84.3	86.1	69.5	69.5	63.9	4.4	3.2	2.7	6.8	6.8	9.1
South Dakota	78.3	82.2	82.5	59.0	59.4	66.5	4.1	2.6	2.5	*	*	J. 1
Tennessee	82.8	85.7	87.6	72.2	72.2	57.1	4.1	3.0	2.3	7.9	7.9	14.7
Texas	80.3	80.5	88.0	77.0	76.9	74.2	4.9	4.9	2.5	5.7	5.7	6.9
Jtah	79.3	80.3	83.5	61.7	61.6	60.8	4.7	4.3	3.4	15.0	15.2	9.6
Vermont	89.3	89.3	89.5	77.4	75.9	81.8	1.8.	1.8	1.7	*	*	*
Virginia	85.1	87.8	90.5	76.5	76.5	69.8	3.6	2.8	2.0	5.8	5.7	7.9
Washington	83.2	83.8	86.2	77.0	76.9	73.1	3.0	2.8	2.2	4.7	4.6	5.3
West Virginia Wisconsin	86.3 83.8	86.8	86.9	76.2	76.6	63.4	2.2	2.1	2.1	4.1	4.0	. *
Wyoming	83.8 82.9	86.2 83.4	87.7 84.6	69.6 83.1	69.5 84.4	69.8 71.6	3.4 4.0	2.7 3.8	2.4 3.7	8.1	8.1	6.3 5.5
									0.7			5.5
Puerto Rico	79.4	80.1	01.0	71.1			3.3	3.0		5.8		
/irgin Islands Guam	65.6	65.1	81.0	65.3	66.4	59.5	8.6	8.7	*	8.9	8.1	10.6
American Samoa	64.0 	88.8	89.4	86.5	86.5	72.0	12.2	*	*	*	*	*
Northern Marianas	30.1	*					05.0	*				
TOTALOUT IVIALIANAS	30.1			-			25.8	*		*		

Figure does not meet standards of reliability or precision; based on fewer than 20 births in the numerator.
 Data not available.
 Care beginning in 3rd trimester.
 Includes races other than white and black and origin not stated.
 Includes all persons of Hispanic origin of any race.
 Excludes data for the territories.



Table 35. Live births by month of pregnancy prenatal care began, number of prenatal visits, and median number of visits, by race and Hispanic origin of mother: United States, 2001

	_			Month of	pregnancy pre	natal care be	gan		
Number of prenatal visits	All	1	lst trimester		2d trimester	La	ate or no care		Not
and race and Hispanic origin of mother	births -	Total	1st and 2d months	3d month	4th-6th months	Total	7th-9th months	No care	stated
Il races 1	4,025,933	3,276,902	2,534,944	741,958	506,668	147,390	105,662	41,728	94,97
No visits	41,728					41,728	•••	41,728	
1-2 visits	41,755	10,928	7,248	3,680	9,764	19,121	19,121	•••	1,94
3-4 visits	86,035	25,606	15,090	10,516	30,653	27,216	27,216	•••	2,56
5-6 visits	183,463	80,249	47,074	33,175	73,582	26,044	26,044	•••	3,5
7-8 visits	342,823	213,002	132,086	80,916	109,984	15,206	15,206	•••	4,6
9-10 visits	776.133	620,324	424,571	195,753	138,479	8,618	8,618		8,7
11-12 visits	1,044,952	957,024	744,129	212,895	78,747	3,518	3,518		5,6
13-14 visits	660 605	627,192	520,940	106,252	28,642	1,428	1,428		3,3
15-16 visits	473.523	451,622	393,547	58,075	18,652	1,146	1,146	•••	2,1
17-18 visits		99,838	85,564	14,274	3,437	217	217		5
19 visits or more	146,295	139,215	123,755	15,460	5,727	454	454		8
Not stated	124,601	51,902	40,940	10,962	9,001	2,694	2,694	•••	61,0
Median number of visits	12.3	12.6	12.8	11.5	9.5	5.4	5.4		10
White, total	3,177,626	2,648,763	2,064,013	584,750	361,527	99,225	72,661	26,564	68,1
No violto	26 564					26,564		26,564	
No visits	26,564	7 000	4.990	2.408	5,870	12,569	12,569	20,304	1,1
1-2 visits	26,940	7,398			19,670	18,281	18,281		1,7
3-4 visits	56,945	17,231	10,226	7,005	50,516	18,116	18,116		2,4
5-6 visits	128,656	57,560	33,685	23,875	78,383	10,802	10,802	•••	3,4
7-8 visits	257,473	164,803	102,839	61,964	100.340	6,068	6,068	***	5,8
9-10 visits	603,605	491,348	338,275	153,073			2,636	•••	4,4
11-12 visits	852,565	786,864	615,133	171,731	58,593	2,636	1,065	•••	2,6
13-14 visits	545,362	520,022	433,464	86,558	21,661	1,065 848	848	•••	1,6
15-16 visits	384,337	368,121	321,325	46,796	13,734		176	•••	1,0
17-18 visits	85,531	82,342	71,100	11,242	2,586	176 332	332		ē
19 visits or more Not stated	18,191 91,457	113,150 39,924	101,275 31,701	11,875 8,223	4,036 6,138	1,768	1,768		43,6
Median number of visits	12.3	12.6	12.8	11.6	9.6	5.5	5.5		10
White, non-Hispanic	2,326,578	2,022,737	1,605,473	417,264	210,946	51,230	37,808	13,422	41,6
No visits	13,422			•••	,	13,422		13,422	
1-2 visits	13,621	3,937	2,700	1,237	2,885	6,231	6,231		
3-4 visits	30,489	10,202	6,295	3,907	10,287	8,976	8,976	·	1,0
5-6 visits	76,071	38,210	23,267	14,943	27,158	9,169	9,169		1,8
7-8 visits	169,987	117,474	75,664	41,810	44,537	5,738	5,738		2,2
9-10 visits	423,441	357,166	252,298	104,868	58,635	3,455	3,455		4,
11-12 visits	663,143	620,242	491,932	128,310	37,915	1,635	1,635		3,
13-14 visits	431,669	414,269	347,287	66,982	14,643	716	716		2,0
15-16 visits	290.194	280,689	247,227	33,462	7,699	570	570		1,3
17-18 visits	67,748	65,534	56,992	8,542	1,750	113	113		
19 visits or more	93,670	90,299	81,521	8,778	2,615	236	236		
Not stated	53,123	24,715	20,290	4,425	2,822	969	969		24,6
Median number of visits	12.5	12.7	12.8	11.9	9.9	5.7	5.7	•••	1
Black, total	606,156	436,504	325,221	111,283	111,414	38,243	24,927	13,316	19,9
No visits	13,316					13,316	•••	13,316	
	11,900	2,836	1,794	1,042	3,250	5,118	5,118		(
1-2 visits	22,808	6,669	3,895	2,774	8,737	6,779	6,779		
3-4 visits 5-6 visits	41,484	17,052	10,177	6,875	17,620	5,945	5,945		
7-8 visits	60,903	33,110	20,102	13,008	23,719	3,233	3,233	•••	
	123,264	89,979	59,999	29,980	29,029	1,920	1,920		2,
9-10 visits	128,746	112,098	83,938	28,160	15,201	626	626		
11-12 visits				13,688	5,288	262	262		
13-14 visits	78,888	72,845	59,157	8,214	4,029	232	232	•••	
15-16 visits	64,000	59,428	51,214		4,029 679	232	232 27		
17-18 visits	13,499	12,722	10,361	2,361	1,465	94	94	•••	
19 visits or more	21,900	20,167	17,220	2,947			691	•••	12,
Not stated	25,448	9,598	7,364	2,234	2,397	691	091	•••	12,
					9.1		5.1		

See footnotes at end of table.



Table 35. Live births by month of pregnancy prenatal care began, number of prenatal visits, and median number of visits, by race and Hispanic origin of mother: United States, 2001 --Con.

	_			Month o	f pregnancy pre	natal care be	gan		
Number of prenatal visits and race and Hispanic origin of mother	All births -		1st trimester		2d trimester	L	ate or no care		
and race and rispanic origin of modiler		Total	1st and 2d months	3d month	4th-6th months	Total	7th-9th months	No care	Not stated
Black, non-Hispanic	589,917	425,083	316,867	108,216	108,638	37,199	24,120	13,079	18,997
No visits	13,079					13.079		13,079	
1-2 visits	11,652	2,776	1.758	1.018	3,190	4,995	4.995	•	691
3-4 visits	22,278	6,549	3,820	2,729	8,548	6,572	6.572	•	609
5-6 visits	40,423	16,645	9,939	6,706	17,215	5,744	5,744	•••	819
7-8 visits	59,162	32,152	19,535	12.617	23,104	3,106	3,106	•••	800
9-10 visits	118,966	86,936	57,876	29,060	28,261	1,830	1,830		1,939
11-12 visits	125,193	109,045	81,673	27,372	14.754	600	600		794
13-14 visits	76,993	71,112	57.798	13,314	5,158	254	. 254		794 469
15-16 visits	62,799	58,304	50,283	8,021	3,136	227	227	•••	469 308
17-18 visits	13,228	12,472	10,166	2,306	3,960 661	227 25	227 25		
19 visits or more	21,492	19,787	16.895	2,892	1,442	92	25 92	•••	70
Not stated	24,652	9,305	7,124	2,092	2.345	675	92 675	•••	171
7101 010100	24,002	3,303	7,124	2,101	2,343	0/3	6/5	•••	12,327
Median number of visits	11.7	12.4	12.7	11.1	9.1	5.1	5.1		9.8
Hispanic ²	851,851	625,816	457,753	168,063	152,170	48,502	35,400	13,102	25,363
No visits	13,102					13,102		13,102	
1-2 visits	13,422	3.476	2.292	1,184	3,013	6.411	6.411	.0,.02	522
3-4 visits	26,730	7,042	3,942	3,100	9,498	9,460	9,460	•••	730
5-6 visits	53,066	19,483	10,492	8,991	23.556	9,105	9,105	•••	922
7-8 visits	88,196	47.567	27.298	20,269	34,253	5.143	5,143	•••	1.233
9-10 visits	182,178	135,258	86,690	48,568	42,246	2,701	2,701		1,973
11-12 visits	189,403	166,368	122,829	43,539	20,917	1.027	1.027		1,091
13-14 visits	113,511	105,519	85,923	19,596	7.060	348	348	•	584
15-16 visits	93.595	86,865	73,566	13,299	6,071	278	278	•••	381
17-18 visits	17,728	16,744	14,041	2,703	844	66	66	•••	74
19 visits or more	24,315	22.644	19,572	3,072	1,424	94	94	•••	153
Not stated	36,605	14,850	11,108	3,742	3,288	767	767		17,700
Median number of visits	11.7	12.4	12.7	11.0	9.3	5.3	5.3		9.7

... Category not applicable.

1 Includes races other than white and black and origin not stated.

2 Includes all persons of Hispanic origin of any race.





Table 36. Live births to mothers with selected obstetric procedures and rates by age of mother, by race of mother: United States, 2001

[Rates are number of live births with specified procedure per 1,000 live births in specified group]

Obstetric procedure and race of mother	All births ¹	Obstetric procedure reported			Age of mother				, .	. Net
			All ages	Under 20 years	20-24 years	25-29 years	30-34 years	35-39 years	40-54 years	Not stated ²
All races ³										
Amniocentesis Electronic fetal monitoring Induction of labor Stimulation of labor Tocolysis Ultrasound	4,025,933 4,025,933 4,025,933 4,025,933 4,025,933 4,025,933	87,927 3,397,544 819,924 702,660 84,602 2,696,063	21.9 847.9 204.6 175.4 21.1 672.8	5.9 860.9 195.6 191.8 22.9 640.1	7.4 855.9 205.2 183.4 22.7 659.5	9.8 850.0 212.6 177.2 21.1 677.5	17.5 842.3 205.6 169.2 19.9 689.3	86.2 829.9 195.1 155.6 18.8 688.9	126.8 817.1 188.8 145.6 19.5 680.4	18,830 18,830 18,830 18,830 18,830 18,830
White										
Amniocentesis Electronic fetal monitoring Induction of labor Stimulation of labor Tocolysis Ultrasound	3,177,626 3,177,626 3,177,626 3,177,626 3,177,626 3,177,626	71,930 2,685,098 680,846 561,467 67,022 2,162,694	22.7 849.0 215.3 177.5 21.2 683.8	5.7 860.5 206.5 197.0 23.3 655.3	7.2 856.2 216.7 187.5 22.9 672.4	9.6 852.1 223.8 178.9 21.3 686.5	17.5 844.9 215.3 170.5 20.0 697.6	88.3 832.0 204.3 157.1 18.5 696.8	133.3 817.8 196.4 148.2 19.2 688.7	15,052 15,052 15,052 15,052 15,052 15,052
Black										
Amniocentesis Electronic fetal monitoring Induction of labor Stimulation of labor Tocolysis Ultrasound	606,156 606,156 606,156 606,156 606,156 606,156	8,701 517,061 102,847 97,216 12,683 372,493	14.4 855.6 170.2 160.9 21.0 616.4	6.5 867.2 170.4 178.0 20.7 598.2	8.0 862.6 170.2 167.3 21.4 610.6	10.5 852.9 172.5 158.8 20.7 624.5	15.5 843.9 170.6 147.3 21.0 630.0	53.2 835.2 163.3 135.3 21.0 630.0	76.2 834.6 166.2 125.1 20.6 630.1	1,837 1,837 1,837 1,837 1,837

¹ Total number of births to residents of areas reporting specified obstetric procedures.
No response reported for the obstetric procedures item.
Includes races other than white and black.

NOTE: Race and Hispanic origin are reported separately on the birth certificate. In this table all women (including Hispanic women) are classified only according to their race; see Technical notes.



Table 37. Live births to mothers with selected complications of labor and/or delivery and rates by age of mother, by race of mother: United States, 2001

[Rates are number of live births with specified complication per 1,000 live births in specified group]

	All	0			A	ge of moth	er	•		
Complication and race of mother	births 1	Complication reported	All ages	Under 20 years	20-24 years	25-29 years	30-34 years	35-39 years	40-54 years	Not stated ²
All races ³										
Febrile	4.025.933	61.431	15.4	19.4	15.9	15.7	14.4	12.2	11,1	25,152
Meconium, moderate/heavy	4,025,933	206,123	51.5	58.6	53.0	49.8	49.1	49.9	52.6	25 152
Premature rupture of membrane	4.025,933	95,129	23.8	24.7	22.8	23.0	24.1	25.3	27.8	25,152
Abruptio placenta	4,025,933	21,765	5.4	5.2	5.3	5.1	5.4	6.5	8.6	25,152
Placenta previa	4,025,933	13,198	3.3	1.0	1.8	2.9	4.4	6.5	8.8	25,152
Other excessive bleeding	4,025,933	26,231	6.6	6.4	6.2	6.4	6.6	7.4	8.2	25,152
Seizures during labor	4,025,933	1,282	0.3	0.7	0.3	0.3	0.2	0.2	0.3	25,152
Precipitous labor	4,025,933	75,745	18.9	13.6	17.8	19.1	20.6	22.4	21.8	25,152
Prolonged labor	4,025,933	29 192	7.3	8.4	7.5	7.2	7.0	6.6	7.4	25,152
Dysfunctional labor	4,025,933	112,268	28.1	28.5	26.8	28.0	28.5	28.8	31.4	25,152
Breech/Malpresentation	4,025,933	153,141	38.3	28.6	31.2	37.3	44.5	49.4	56.3	25,152
Dephalopelvic disproportion	4,025,933	66 060	16.5	16.8	15.2	16.8	17.4	16.5	17.1	25,152
Cord prolapse	4,025,933	7.267	1.8	1.3	1.6	1.8	2.0	2.4	2.6	25,152
Anesthetic complication 4	3,660,523	2,414	0.7	0.5	0.5	0.7	0.8	0.8	0.8	27,726
Fetal distress 4	3,660,523	140,617	38.7	43.4	38.2	36.8	37.4	40.9	46.0	27,726
White										
Febrile	3,177,626	46,631	14.8	18.9	15.7	15.2	13.7	11.5	10.8	20,118
Meconium, moderate/heavy	3,177,626	151,345	47.9	53.2	49.4	46.5	46.1	46.9	49.5	20,118
remature rupture of membrane	3,177,626	72,234	22.9	22.9	21.8	22.2	23.4	24.5	27.4	20,118
bruptio placenta	3,177,626	16,571	5.2	5.0	5.0	5.0	5.2	6.3	8.2	20,118
lacenta previa	3,177,626	10,204	3.2	1.0	1.8	2.8	4.2	6.2	8.1	20,118
Other excessive bleeding	3,177,626	20,939	6.6	6.7	6.4	6.5	6.5	7.3	7.8	20,118
Seizures during labor	3.177.626	917	0.3	0.7	0.3	0.3	0.2	0.2	0.3	20,118
Precipitous labor	3,177,626	58.664	18.6	12.5	17.0	18.6	20.4	22.7	21.9	20,118
Prolonged labor	3,177,626	23,794	7.5	8.8	7.9	7.3	7.1	6.9	7.8	20,118
Dysfunctional labor	3,177,626	88,782	28.1	28.6	27.1	28.2	28.3	28.5	31.6	20,118
Breech/Malpresentation	3,177,626	125,809	39.8	30.8	32.7	38.4	45.7	50.2	56.8	20,118
Sephalopelvic disproportion	3,177,626	53,436	16.9	17.6	16.0	17.4	17.2	16.5	17.4	20,118
Cord prolapse	3 177 626	5.722	1.8	1.2	1.6	1.8	2.0	2.4	2.6	20,118
Anesthetic complication 4	2.865.647	1,962	0.7	0.5	0.6	0.7	0.8	0.8	0.9	22,313
etal distress 4	2,865,647	104,731	36.8	41.2	36.5	35.1	35.6	38.9	44.0	22,313
Black										
Febrile	606,156	9,194	15.2	20.4	15.5	13.3	13.5	12.3	9.3	2,562
Meconium, moderate/heavy	606,156	41.937	69.5	73.5	66.7	67.5	71.4	72.0	73.2	2,562
remature rupture of membrane	606,156	16,773	27.8	73.5 28.5	26.2	26.4	71.4 29.4	72.0 32.2	73.2 31.9	2,562
bruptio placenta	606,156	4.005	6.6	26.5 5.6	6.6	6.4	29.4 7.1	8.2	11.1	2,562
lacenta previa	606,156	1,832	3.0	0.9	2.1	3.3	4.7	6.6	8.6	2,562
Other excessive bleeding	606,156	2,985	4.9	4.5	4.5	3.3 4.6	4.7 5.6	6.5	8.6	2,562
eizures during labor	606,156	2,983	0.5	0.8	0.5	0.4	0.3	*	o.u *	2,562
recipitous labor	606,156	12,192	20.2	15.7	19.8	22.1	22.5	21.9	21.8	2,562
Prolonged labor	606,156	3.342	5.5	6.8	5.6	5.2	4.8	4.9	4.7	2,562
Pysfunctional labor	606,156	15,283	25.3	27.0	24.3	24.3	26.6	26.0	25.7	2,562
reech/Malpresentation	606,156	18,533	30.7	22.8	25.6	31.6	39.1	46.2	53.3	2,562
ephalopelvic disproportion	606,156	7.653	12.7	14.6	12.2	11.6	13.6	46.2 11.9	11.0	2,562
Cord prolapse	606,156	1,139	1.9	1.3	1.8	1.9	2.3	2.7	3.3	2,562
nesthetic complication 4	565,406	315	0.6	0.4	0.5	0.6	0.8	0.7	J.J *	2,362
etal distress 4	565,406	27,180	48.3	49.6	45.0	45.8	51.3	56.8	61.3	2,902
	JUJ, 700	27,100	70.0	40.0	45.0	40.0	31.3	50.6	01.0	2,302

^{*} Figure does not meet standards of reliability or precision; based on fewer than 20 births in the numerator.

1 Total number of births to residents of areas reporting specified complication.
2 No response reported for the complications item.
3 Includes races other than white and black.
4 Texas does not report this complication.

NOTE: Race and Hispanic origin are reported separately on the birth certificate. In this table all women (including Hispanic women) are classified only according to their race; see Technical notes.



Table 38. Live births by attendant, place of delivery, and race and Hispanic origin of mother: United States, 2001

			Physician			Midwife			
Place of delivery and race and Hispanic origin of mother	All births	Total	Doctor of medicine	Doctor of osteopathy	Total	Certified nurse midwife	Other midwife	Other	Unspecified
All races ¹									
Fotal	4,025,933	3,681,029	3,509,203	171,826	322,398	305,606	16,792	21,338	1,168
n hospital ²	3,989,662	3,676,520	3,505,396	171,124	300,647	296,620	4,027	11,816	679
Not in hospital	35,944	4,311	3,623	688	21,687	8,932	12,755	9,489	45
Freestanding birthing center Clinic or doctor's office	9,978 494	1,318 223	888 207	430 16	8,390 229	5,607 120	2,783 109	259 41	1;
Residence	23,245	2,130	1,910	220	12,655	3,004	9,651	8,122	338
Other	2,227	640	618	22	413	201	212	1,067	10
Not specified	327	198	184	14	64	54	10	33	3:
White, total									
Total	3,177,626	2,903,305	2,756,334	146,971	256,663	240,989	15,674	16,750	908
n hospital ²	3,145,622	2,899,989	2,753,669	146,320	236,050	232,684	3,366	9,009	574
Not in hospital Freestanding birthing center	31,744 9,251	3,152 1,204	2,514 776	638 428	20,554 7,803	8,256 5,161	12,298 2,642	7,726 234	312 10
Clinic or doctor's office	432	1,204	163	14	223	116	107	31	'
Residence	20,546	1,415	1,233	182	12,162	2,814	9,348	6,723	246
Other	1,515	356	342	14	366	165	201	738	55
Not specified	260	164	151	13	59	49	10	15	22
White, non-Hispanic									
Total	2,326,578	2,138,732	2,020,787	117,945	175,097	161,679	13,418	12,262	487
n hospital ²	2,299,043	2,135,865	2,018,544	117,321	157,198	154,465	2,733	5,700	280 202
Not in hospital Freestanding birthing center	27,332 7,556	2,735 1,143	2,122 721	613 422	17,843 6,191	7,168 4,372	10,675 1,819	6,552 213	202
Clinic or doctor's office	392	160	147	13	205	104	101	26	•
Residence	18,312	1,174	1,009	165	11,155	2,573	8,582	5,816	167
Other	1,072 203	258 132	245 121	13 11	292 56	119 46	173 10	497 10	25
•	200	102	,_,	,,	00				•
Black, total	000 450		500.000	40.407	45.004	44.740	570	0.005	101
Total	606,156	557,375	538,888	18,487	45,284	44,712	572	3,335	163
In hospital ² Not in hospital	603,084 3,034	556,395 967	537,951 925	18,444 42	44,626 655	44,257 452	369 203	2,002 1,321	61 91
Freestanding birthing center	463	69	68	1	378	292	86	16	-
Clinic or doctor's office	29	23	_23	-	3	3	-	3	
Residence	2,032	632	597 237	35 6	249	135	114 3	1,097	54 37
Other Not specified	510 38	243 13	12	1	25 3	22 3	-	205 12	10
Black, non-Hispanic									
Total	589,917	543,117	525,219	17,898	43,400	42,858	542	3,250	150
In hospital ²	586,966	542,172	524,315	17,857	42,781	42,423	358	1,954	59
Not in hospital	2,920	934	894	40	616	432	184	1,286	
Freestanding birthing center	443	69	68	1	358	281	77	16	
Clinic or doctor's office	28	22	22		3	3	-	3	-
Residence	1,957 492	606 237	573 231	33 6	231 24	126 22	105 2	1,069 198	5 [.] 30
Other Not specified	31	11	10	1	3	3	-	10	
Hispanic ³									
Total	851,851	765,437	736,549	28,888	81,724	79,698	2,026	4,325	369
In hospital ²	847,859	765,007	736,144	28,863	79,275	78,685	590	3,308	269
Not in hospital	3,974	417	393	24	2,446	1,010	1,436	1,015	
Freestanding birthing center	1,676 37	54 16	50 15	4 1	1,601 16	773 10	828 6	20 5	
Clinic or doctor's office	1,824	243	225	18	758	183	575	759	64
Other	437	104	103	1	71	44	27	231	3
Not specified	18	13	12	1	3	3	-	2	-



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⁻ Quantity zero.

1 Includes races other than white and black and origin not stated.

2 Includes births occurring en route to or on arrival at hospital.

Includes all persons of Hispanic origin of any race.

Table 39. Live births by method of delivery and rates of cesarean delivery and vaginal birth after previous cesarean delivery, by race and Hispanic origin of mother: United States, 1989-2001

			Births by	method of de	elivery		_	Cesarean	delivery rate	5-4
Year and race and Hispanic origin		Vagi	nal		Cesarean					Rate of vaginal birtl after
of mother	All births	Total	After previous cesarean	Total	Primary	Repeat	Not stated	Total ¹	Primary ²	previous cesarean 3
All races ⁴										
2001	4,025,933	3,027,993	74,048	978,411	601,383	377,028	19,529	24.4	16.9	16.4
2000	4,058,814	3,108,188	89,978	923,991	577,638	346,353	26,635	22.9	16.1	20.6
1999	3,959,417	3,063,870	97,680	862,086	542,080	320,006	33,461	22.0	15.5	23.4
1998	3,941,553	3,078,537	108,903	825,870	519,975	305,895	37,146	21.2	14.9	26.3
1997	3,880,894	3,046,621	112,145	799,033	502,526	296,507	35,240	20.8	14.6	27.4
1996 1995	3,891,494 3,899,589	3,061,092 3,063,724	116,045 112,439	797,119 806,722	503,724	293,395	33,283	20.7	14.6	28.3
1994	3,952,767	3,063,724	110,341	830,517	510,104 520,647	296,618 309,870	29,143 34,674	20.8 21.2	14.7 14.9	27.5 26.3
1993	4,000,240	3,098,796	103,581	861,987	539,251	322,736	39,457	21.8	15.3	24.3
1992	4,065,014	3,100,710	97,549	888,622	554,662	333,960	75,682	22.3	15.6	22.6
1991	4,110,907	3,100,891	90,690	905,077	569,195	335,882	104,939	22.6	15.9	21.3
1990 5	4,110,563	3,111,421	84,299	914,096	575,066	339,030	85,046	22.7	16.0	19.9
1989 6	3,798,734	2,793,463	71,019	826,955	521,873	305,082	178,316	22.8	16.1	18.9
White, total										
2001	3,177,626	2,394,930	58,053	766,771	467,285	299,486	15,925	24.3	16.7	16.2
2000	3,194,005	2,449,264	70,414	723,209	449,161	274,048	21,532	22.8	15.9	20.4
1999	3,132,501	2,426,092	77,158	678,952	424,148	254,804	27,457	21.9	15.3	23.2
1998	3,118,727	2,440,113	86,495	649,987	406,439	243,548	28,627	21.0	14.7	26.2
1997	3,072,640	2,415,236	89,522	630,613	393,603	237,010	26,791	20.7	14.5	27.4
1996	3,093,057	2,434,079	93,783	631,409	395,851	235,558	27,569	20.6	14.5	28.5
1995	3,098,885	2,435,191	90,940	639,818	401,098	238,720	23,876	20.8	14.6	27.6
1994	3,121,004	2,435,965	88,471	656,400	407,946	248,454	28,639	21.2	14.8	26.3
1993	3,149,833	2,435,229	82,995	682,355	423,540	258,815	32,249	21.9	15.3	24.3
1992	3,201,678	2,434,959	77,977	705,841	437,398	268,443	60,878	22.5	15.7	22.5
1991	3,241,273	2,434,900	72,564	723,088	452,534	270,554	83,285	22.9	16.1	21.1
1990 ⁵	3,252,473 3,022,537	2,453,857 2,212,843	67,191 56,851	732,713 667,114	458,656 418,177	274,057 248,937	65,903 142,580	23.0 23.2	16.1 16.2	19.7 18.6
White, non-Hispanic	0,022,007	2,212,040	50,051	007,114	410,177	240,307	142,500	20.2	10.2	10.0
•										
2001	2,326,578	1,746,551	43,215	567,488	353,977	213,511	12,539	24.5	17.2	16.8
2000	2,362,968	1,804,550	52,912	540,794	342,732	198,062	17,624	23.1	16.4	21.1
1999 1998	2,346,450 2,361,462	1,810,682 1,842,420	59,480 67,787	514,051	327,106	186,945	21,717	22.1	15.7	24.1
1997	2,333,363	1,829,213	67,787 70,284	495,550 481,982	315,138 305,605	180,412 176,377	23,492 22,168	21.2 20.9	15.1 14.8	27.3 28.5
1996	2,358,989	1,851,058	73,973	485,530	308,482	177,048	22,100	20.8	14.8	29.5
1995	2,382,638	1,867,024	72,124	496,103	313,933	182,170	19,511	21.0	14.9	28.4
1994	2,438,855	1,896,609	71,597	518,021	324,236	193,785	24,225	21.5	15.1	27.0
1993	2,472,031	1,902,433	67,536	542,013	338,236	203,777	27,585	22.2	15.6	24.9
1992 8	2,527,207	1,916,414	63,828	566,788	352,470	214,318	44,005	22.8	16.0	22.9
1991 8	2,589,878	1,941,726	60,174	587,802	368,721	219,081	60,350	23.2	16.4	21.5
1990 5. 9 1989 6, 10	2,626,500	1,972,754	55,952	603,467	378,508	224,959	50,279	23.4	16.5	19.9
	2,526,367	1,806,753	47,559	556,585	349,858	206,727	163,029	23.6	16.6	18.7
Black, total	606 156	AA7 450	11 747	156.071	07 420	ED 640	0.607	25.0	10.2	167
20012000	606,156 622,598	447,458 468,497	11,747 14,382	156,071 150,401	97,429 94,767	58,642 55,634	2,627 3,700	25.9 24.3	18.3 17.3	16.7 20.5
1999	605,970	462,401	15,438	139,471	88,269	51,202	4,098	23.2	16.5	23.2
1998	609,902	470,088	17,062	135,727	86,438	49,289	4,087	22.4	16.0	25.7
1997	599,913	466,001	16,986	130,142	83,025	47,117	3,770	21.8	15.6	26.5
996	594,781	462,378	16,866	128,357	82,646	45,711	4,046	21.7	15.6	27.0
1995	603,139	468,984	16,224	130,482	84,441	46,041	3,673	21.8	15.7	26.1
1994	636,391	493,879	16,970	138,067	88,636	49,431	4,445	21.8	15.7	25.6
1993	658,875	509,816	16,179	143,452	91,677	51,775	5,607	22.0	15.7	23.8
992	673,633	514,929	15,382	146,480	93,165	53,315	12,224	22.1	15.7	22.4
991	682,602	519,047	14,213	145,583	92,645	52,938	17,972	21.9	15.5	21.2
990 ⁵ 989 ⁶	679,236 611,147	516,581 452,921	13,496 11,104	146,472 127,907	93,476 82,695	52,996 45,212	16,183 30,319	22.1 22.0	15.7 15.8	20.3 19.7
	U11.147	402.32	11.104	127.907	02.093	4:1/1/	.501.5119			

See footnotes at end of table.



Table 39. Live births by method of delivery and rates of cesarean delivery and vaginal birth after previous cesarean delivery, by race and Hispanic origin of mother: United States, 1989-2001 -- Con.

	•		Births by	method of de	livery			Cesarean	delivery rate	- D-1- of
Year and race	_	Vagi	nal		Cesarean					Rate of vaginal birth after
and Hispanic origin of mother	All births	Total	After previous cesarean	Total	Primary	Repeat	Not stated	Total ¹	Primary ²	previous cesarean ³
Black, non-Hispanic										
2001	589,917	435,455	11,417	151,908	94,912	56,996	2,554	25.9	18.3	16.7
	604,346	454,736	13,910	146,042	92,044	53,998	3,568	24.3	17.3	20.5
1999	588,981	449,580	14,999	135,508	85,898	49,610	3,893	23.2	16.5	23.2
1998	593,127	457,186	16,510	131,999	84,169	47,830	3,942	22.4	16.0	25.7
1997	581,431	451,744	16,353	126,138	80,599	45,539	3, 54 9	21.8	15.6	26.4
1996	578,099	449,544	16,322	124,836	80,457	44,379	3,719	21.7	15.7	26.9
1995	587,781	457,104	15,721	127,171	82,395	44,776	3,506	21.8	15.7	26.0
1994	619,198	480,551	16,478	134,526	86,411	48,115	4,121	21.9	15.7	25.5
1993	641,273	496,333	15,675	139,702	89,315	50,387	5,238	22.0	15.7	23.7
1992 ⁸	657,450	502,669	14,950	143,153	91,086	52,067	11,628	22.2	15.7	22.3
1991 ⁸	666,758	507,522	13,847	142,417	90,664	51,753	16,819	21.9	15.5	21.1
1990 ^{5, 9}	661,701	503,720	13,157	142,838	91,175	51,663	15,143	22.1	15.7	20.3
1989 6, 10	611,269	440,310	10,726	125,290	81,177	44,113	45,669	22.2	15.9	19.6
Hispanic ⁷										
2001	851,851	648,821	14,846	199,874	113,529	86,345	3,156	23.6	15,2	14.7
2000	815,868	633,220	17,062	179,583	104,597	74,986	3,065	22.1	14.5	18.5
1999	764,339	599,118	16,915	161,035	94,433	66,602	4,186	21.2	14.0	20.3
1998	734,661	580,143	17,803	150,317	88,763	61,554	4,201	20.6	13.6	22.4
1997	709,767	563,114	17,942	142,907	84,410	58,497	3,746	20.2	13.4	23.5
1996	701,339	558,105	18,491	139,554	83,392	56,162	3,680	20.0	13.4	24.8
1995	679,768	539,731	17,396	136,640	82,662	53,978	3,397	20.2	13.7	24.4
1994	665,026	525,928	16,206	135,569	81,961	53,608	3,529	20.5	13.9	23.2
1993	654,418	514,493	14,586	136,279	82,576	53,703	3,646	20.9	14.2	21.4
1992 ⁸	643,271	494,338	13,111	133,369	81,211	52,158	15,564	21.2	14.4	20.1
1992 ⁸ 1991 ⁸ 1990 ⁵ , ⁹	623,085 595,073	494,336 472,126 458,242	11,615 10,395	129,752 122,969	80,228 76,027	49,524 46,942	21,207 13,862	21.2 21.6 21.2	14.4 14.8 14.5	19.0 18.1
1989 6, 10	532,249	385,462	8,549	105,268	64 905	40,363	41,519	21.5	14.7	17.5



Percent of all live births by cesarean delivery.

Number of primary cesareans per 100 live births to women who have not had a previous cesarean.

Number of vaginal births after previous cesarean delivery per 100 live births to women with a previous cesarean delivery.

Includes races other than white and black and origin not stated.

Excludes data for Oklahoma, which did not report method of delivery on the birth certificate.

Excludes data for Louisiana, Maryland, Nebraska, Nevada, and Oklahoma, which did not report method of delivery on the birth certificate.

Includes all presons of Hispanic origin of any race.

Excludes data for New Hampshire which did not report Hispanic origin.

Excludes data for New Hampshire and Oklahoma which did not report Hispanic origin.

Excludes data for Louisiana, New Hampshire, and Oklahoma, which did not report Hispanic origin.

Table 40. Live births by method of delivery, and rates of cesarean delivery and vaginal birth after previous cesarean delivery, by age and race and Hispanic origin of mother: United States, 2001

			Births by	method of de	livery			Cesarean	delivery rate	
Age and race and Hispanic		Vagi	nal		Cesarean					Rate of vaginal
origin of mother	All births	Total	After previous cesarean	Total	Primary	Repeat	Not stated	Total 1	Primary ²	birth afte previous cesarean
All races 4	4,025,933	3,027,993	74.048	978,411	601 383	377 039	10 500	24.4	16.0	16.4
MI Faces			•	•	601,383	377,028	19,529	24.4	16.9	16.4
Inder 20 years	453,725	376,020	2,066	75,999	66,757	9,242	1,706	16.8	15.1	18.3
0-24 years	1,021,627	813,287	13,996	203,942	137,501	66,441	4,398	20.0	14.7	17.4
5-29 years	1,058,265	802,455	20,391	250,697	152,218	98,479	5,113	23.8	16.3	17.2
0-34 years	942,697	674,460	22,503	263,193	146,742	116,451	5,044	28.1	18.4	16.2
5-39 years	451,723	301,497	12,514	147,590	77,443	70,147	2,636	32.9	21.1	15.1
0-54 years	97,896	60,274	2,578	36,990	20,722	16,268	632	38.0	26.4	13.7
, 04 yours	-		•	•		•	002	30.0	20.4	13.7
/hite, total	3,177,626	2,394,930	58,053	766,771	467,285	299,486	15,925	24.3	16.7	16.2
nder 20 years	322,658	268,809	1,343	52,599	46,420	6,179	1,250	16.4	14.8	17.9
0-24 years	779,529	623,306	10,010	152,775	103,704	49,071	3,448	19.7	14.5	16.9
5-29 years	850,343	646,670	15,835	199,448	120,779	78,669	4,225	23.6	16.1	16.8
0-34 years	777,294	558,749	18,419	214,281	118.590	95.691	4,264	27.7	18.0	16.1
5-39 years	368,816	248,161	10,317	118,433	61,544	56,889	2,222	32.3	20.6	15.4
0-54 years	78,986	49,235	2,129	29,235		12,987	516	37.3	25.6	14.1
White, non-Hispanic	2,326,578	1,746,551	43,215	567,488	353,977	213,511	12,539	24.5	17.2	16.8
nder 20 years	191,742	158,740	697	32,172	28,914	3,258	920	16.9	15 5	17.6
							830		15.5	
0-24 years	523,027	417,250	6,328	103,216	72,028	31,188	2,561	19.8	14.9	16.9
5-29 years	622,361	474,282	10,996	144,770	92,115	52,655	3,309	23.4	16.6	17.3
0-34 years	625,435	452,285	14,743	169,613	97,261	72,352	3,537	27.3	18.2	16.9
5-39 years	300,007	203,762	8,613	94,376	50,403	43,973	1,869	31.7	20.5	16.4
0-54 years	64,006	40,232	1,838	23,341	13,256	10,085	433	36.7	25.7	15.4
lack, total	606,156	447,458	11,747	156,071	97,429	58,642	2,627	25.9	18.3	16.7
nder 20 years	114,298	92,725	653	21,187	18,362	2,825	386	18.6	16.6	18.8
0-24 years	199,221	154,358	3,443	44,078	28,640	15,438	785	22.2	16.0	18.2
5-29 years	137,400	100,218	3,446	36,544	20,844	15,700	638	26.7	17.7	18.0
)-34 years	94,660	63,432	2,611	30,731	16,788	13,943	497	32.6	21.6	15.8
5-39 years	49,065	30,163	1,317	18,651	10,003	8,648	251	38.2	25.7	13.2
0-54 years	11,512	6,562	277	4,880	2,792	2,088	70	42.6	30.8	11.7
Black, non-Hispanic	589,917	435,455	11,417	151,908	94,912	56,996	2,554	25.9	18.3	16.7
nder 20 years	111,653	90,524	640	20,750	17,972	2,778	379	18.6	16.7	18.7
0-24 years	194,391	150,495	3,365	43,127	27,973	15,154	769	22.3	16.0	18.2
	133,491	97,362	3,347	35,506	20,272		623			
5-29 years 0-34 years	91,710	61,473	3,347 2,534	29,758	20,272 16,271	15,234		26.7	17.7	18.0
						13,487	479	32.6	21.6	15.8
5-39 years)-54 years	47,494 11,178	29,228 6,373	1,263 268	18,028 4,739	9,703 2,721	8,325 2,018	238 66	38.1 42.6	25.8 30.8	13.2 11.7
	·	·			·					
ispanic ⁵	851,851	648,821	14,846	199,874	113,529	86,345	3,156	23.6	15.2	14.7
nder 20 years	132,562	111,457	652	20,700	17,757	2,943	405	15.7	13.8	18.1
0-24 years	258,431	207,579	3,709	50,000	32,008	17,992	852	19.4	13.6	17.1
5-29 years	227,910	172,130	4,859	54,900	28,663	26,237	880	24.2	14.6	15.6
)-34 years	150,352	105,241	3,649	44,451	21,129	23,322	660	29.7	17.2	13.5
5-39 years	67,952	43,643	1,689	24,007	11,045	12,962	302	35.5	20.8	11.5
)-54 years	14,644	8,771	288	5,816	2,927	2,889	57	39.9	25.7	9.1



Percent of all live births by cesarean delivery.

Number of primary cesareans per 100 live births to women who have not had a previous cesarean.

Number of vaginal births after previous cesarean delivery per 100 live births to women with a previous cesarean delivery. Includes races other than white and black and origin not stated.

Includes all persons of Hispanic origin of any race.

Table 41. Rates of cesarean delivery and vaginal birth after previous cesarean delivery by race and Hispanic origin of mother: United States, each State and territory, 2001

			esarean del	ivery rate	1		R	ate of vagi	inal births at	fter previou	us cesarea	n 2
		W	nite	Bla	ıck			W	nite	Bla	ack	
State	All races ³	Total	Non- Hispanic	Total	Non- Hispanic	Hispanic ⁴	All races 3	Total	Non- Hispanic	Total	Non- Hispanic	Hispanic ⁴
United States ⁵	24.4	24.3	24.5	25.9	25.9	23.6	16.4	16.2	16.8	16.7	16.7	14.7
Alabama	27.6	28.1	28.5	26.8	26.8	21.5	11.8	11.0	11.0	13.5	13.5	12.3
Alaska	18.9	21.4	21.3	22.3	22.5	21.7	24.5	18.5	19.5	•	•	•
Arizona	20.0	20.1	21.7	22.2	22.2	18.3	16.7	15.8	16.5	12.4	12.1	15.0
Arkansas	27.6	27.0	27.5	30.3	30.4	22.9	12.7	13.6	12.5	9.6	9.6	23.2
California	25.1	25.0	25.9	28.2	28.3	24.4	10.9	10.8	11.6	10.7	10.8	10.4
Colorado	19.6	19.5	20.1	20.1	20.1	18.3	23.5	23.4	21.4	25.1	24.8	26.8
Connecticut	24.3	24.2	24.7	24.3	24.3	22.4	18.8	18.9	18.8	17.0		18.3
Delaware	25.5	25.0	25.5	26.5	26.3	23.2	17.0	17.3	15.3	16.8	17.1	26.7
District of Columbia	25.0	24.4	28.3	25.3	25.4	17.2	14.0	12.2	40.0	15.0		-
Florida	26.4	26.7	25.9	26.0	25.9	28.3	11.1	10.8	12.2	11.9	12.1	8.2
Georgia	24.3	24.1	25.3	24.8	24.8	18.9	14.7	14.6	14.4	14.4	14.3	15.2
Hawaii	20.1	19.9	19.8	19.4	19.0	20.4	19.3	16.2	16.3		•	16.4
Idaho	18.7 22.3	18.5	18.3	00.4	22.4	19.5 19.8	26.3 21.4	26.4 21.9	25.8 21.1	10 ^	10 ^	30.4 24.1
Illinois		22.2	23.2	22.4						18.6		
Indiana	23.3	23.1	23.2	24.3	24.3	22.0 21.5	16.6	16.6	16.5	16.6	16.5 21.3	18.4 21.6
lowa	23.1	23.0 23.8	23.1	24.5 24.9	24.6	21.3	17.7 15.8	17.6 15.4	17.2 15.2	20.9	16.6	
Kansas	23.8 26.2	26.3	24.3 26.3	25.2	24.9 25.2	25.9	12.4	12.1	11.9	16.7 14.6		18.9
Kentucky Louisiana	29.9	31.0	31.1	28.7	28.7	29.7	8.2	6.7	6.6	10.3		
Maine	24.1	24.1	24.1	22.9	23.2	26.0	13.9	13.7	13.8	10.5	10.5	•
Maryland	25.4	24.4	24.9	27.5	27.6	20.7	20.3	21.0	20.8	18.5	18.6	22.7
Massachusetts	25.4	25.5	26.1	26.7	27.0	21.9	19.5	19.2	18.8	19.9		21.2
Michigan	23.4	23.6	23.7	22.4	22.4	22.1	16.7	15.8	15.5	20.4	20.4	
Minnesota	21.1	21.5	21.5	21.5	21.6	20.7	20.5	19.0	17.9	32.4		29.8
Mississippi	29.7	30.6	30.8	28.7	28.7	23.8	8.6	7.4	7.3	9.8		
Missouri	23.9	24.1	24.2	22.8	22.8	22.7	19.1	18.6	18.6	21.4		
Montana	21.6	21.2	21.0			25.0	18.9	19.7	20.3			
Nebraska	24.1	24.3	24.8	22.0	22.0	20.9	15.5	15.2	14.5	15.0	15.0	19.9
Nevada	23.7	23.1	25.2	27.8	27.6	20.3	15.4	15.7	13.4	15.7		
New Hampshire	23.0	22.9	22.9	32.4	32.9	22.3	22.2	22.6	22.8	•	•	•
New Jersey	28.9	28.9	29.3	29.7	29.4	28.0	21.3	20.6	20.6	24.4	25.3	20.2
New Mexico	18.6	19.1	19.8	23.8	24.9	18.6	24.7	22.5	25.5	•	*	20.9
New York	25.9	26.0	26.3	26.5	26.7	25.1	22.1	22.0	22.6	22.4	22.8	20.0
North Carolina	24.9	24.5	25.5	26.5	26.6	19.5	16.9	16.5	15.2	17.6	17.6	23.0
North Dakota	21.1	21.2	21.2	22.5	22.8	26.3	23.7	24.1	24.4	•	•	•
Ohio	21.7	21.7	21.7	22.0	22.0	20.3	24.5	24.0	24.0	27.1	27.2	23.5
Oklahoma	25.9	25.8	26.3	26.5	26.5	22.2	11.1	11.2	10.6	11.5	11.4	15.7
Oregon	21.0	20.7	21.1	26.3	26.1	19.2	21.0	21.1	19.8	•	•	25.7
Pennsylvania	23.0	23.0	23.1	23.1	23.2	21.3	23.3	22.4	22.2	28.4	28.4	
Rhode Island	24.1	24.4	25.2	23.3	23.6	22.4	18.7	19.1	17.7	•	•	20.2
South Carolina	26.4	26.2	26.6	27.1	27.1	21.7	13.6	13.5	13.0	13.6	13.6	18.7
South Dakota	23.0	23.0	23.0	25.0	25.0		18.8	19.9		•	•	*
Tennessee	26.2	26.4	26.7	25.7	25.7		14.4	13.5	13.1	17.5		
Texas	26.3	26.0	26.7	28.7	28.7		10.6	10.7		9.3	9.2	
Utah	17.2	17.2	16.6	19.9	20.3	20.6	29.1	29.0		•		20.7
Vermont	17.8	17.7	17.8		•	•	40.0	39.6				
Virginia	24.6	24.2	24.5	25.3			16.4	15.8		17.2		
Washington	22.6	22.5	22.6	26.0			18.6	18.6		18.8	18.4	21.8
West Virginia	26.6	26.5	26.5	30.1	30.1		13.4	13.3				*
Wisconsin Wyoming	19.1 20.1	19.6 19.8	19.7 19.6	16.9	16.9	18.4 22.3	23.0 21.2	22.3 21.6		28.9	28.8	22.9
			10.0									
Puerto Rico	42.0	42.2		40.6			4.7	4.6		5.4		
Virgin Islands	25.2	27.9	26.0	23.9	23.5	26.7	15.8	•	•	•		•
Guam	21.8	16.4		•	•	•	15.7	•	•	•	•	•
American Samoa		*					40.0					
Northern Marianas	23.7	•		•			16.8	•		•		



^{*} Figure does not meet standards of reliability or precision; based on fewer than 20 births in the numerator.

— Data not available.

1 Percent of all live births by cesarean delivery.

2 Number of vaginal births after previous cesarean delivery per 100 live births to women with a previous cesarean delivery.

3 Includes races other than white and black and origin not stated.

4 Includes all persons of Hispanic origin of any race.

5 Excludes data for the territories.

Table 42. Rates of cesarean delivery and vaginal birth after previous cesarean delivery, by selected maternal medical risk factors and complications of labor and/or delivery: United States, 2001

	All births to mothers	Cesarean	delivery rate	Rate of vaginal
Medical risk factor and complication	with specified condition and/or procedure	Total ¹	Primary ²	birth after previous cesarean ³
Medical risk factors				
nemia	99,558	24.5	17.0	21.4
ardiac disease	20.698	28.7	20.6	18.2
cute or chronic lung disease	48,246	27.9	20.0	20.0
iabetes	124,242	39.7	28.3	11.9
enital herpes ⁴	33.560	35.2	28.4	20.4
ydramnios/Oligohydramnios	54.694	38.5	32.6	15.3
emoglobinopathy	3,141	27.9	19.5	19.6
ypertension, chronic	32,232	44.7	34.1	10.6
ypertension, critoricypertension, pregnancy-associated	150.329	39.7	34.1	11.8
clampsia	12.627	51.6	46.5	9.7
competent cervix	11,251	37.5	29.7	18.3
enal disease	12.045	27.7	29.7	19.1
h sensitization ⁵	26,933	24.6	17.1	19.3
terine bleeding ⁴	21,324	35.0	27.4	17.4
	21,024	35.0	27.4	17.4
Complications of labor and/or delivery				
ebrile	61,431	31.1	29.7	43.4
econium, moderate/heavy	206,123	21.8	18.9	38.9
remature rupture of membrane	95,129	27.8	24.3	31.0
bruptio placenta	21.765	61.2	56.7	12.8
lacenta previa	13,198	80.9	77.0	3.6
ther excessive bleeding	26,231	34.1	26.8	19.5
eizures during labor	1,282	57.0	54.2	*
recipitous labor (less than 3 hours)	75,745	3.0	2.0	73.0
rolonged labor (more than 20 hours)	29.192	36.6	35.7	44.4
vsfunctional labor	112.268	68.8	67.4	14.0
reech/Malpresentation	153,141	86.2	84.6	3.8
ephalopelvic disproportion	66.060	96.5	96.3	1.8
ord prolapse	7.267	67.6	65.7	12.8
nesthetic complication 4	2,414	42.0	33.5	12.7
etal distress ⁴	140.617	59.4	57.3	18.0



Figure does not meet standards of reliability or precision; based on fewer than 20 births in numerator.
 Percent of all live births by cesarean delivery.
 Number of primary cesareans per 100 live births to women who have not had a previous cesarean.
 Number of vaginal births after previous cesarean delivery per 100 live births to women with a previous cesarean delivery.
 Texas does not report this risk factor or complication.
 Kansas does not report this risk factor.

Table 43. Live births by birthweight and percent very low and low birthweight, by period of gestation and race and Hispanic origin of mother: United States, 2001

### Section Se							Peri	od of gestation	on ²				
of mother binnish binn		All			Preterm				Term			Postterm	
All races 3		births	under					37-41				and	
### Section Se					_		Nui	mber					
2009-99 grams	All races ³	4,025,933	476,250	29,085	48,548	222,640	175,977	3,235,785	2,002,809	824,306	408,670	274,067	39,831
1,000-1,499 grams	Less than 500 grams												
1,500-1999 grams													
1900.2499 grams													
1500 2 999 grams													
1,000.3.99 grams													
1,199,280 39,299 grams 1,199,280 39,293 - 2,473 17,399 19,421 996,084 542,346 299,921 153,817 93,537 30,541 4,500 4,499 grams 322,246 7,870 - 3,838 4,032 290,745 131,845 9,362 55,55 50,844 3,687 4,500 4,999 grams 51,132 1,314 610 704 43,845 19,464 14,365 9,996 5,452 521 40 to stated 51,732 1,314 610 704 43,845 19,464 14,365 9,996 5,452 521 40 to stated 51,732 1,314 610 704 43,845 19,464 14,365 9,996 5,452 521 40 to stated 51,732 1,314 610 704 43,845 19,464 14,365 9,996 5,452 521 40 to stated 51,732 1,314 1,													
1,000_499 grams													
1,500_4)999 grams					2,473								
Soog grams or more 5,498 185 185 186 187					-								
Not stated 3,179 1,044 761 87 133 63 779 463 210 106 82 1,274 Percent													
Very low birthweight 4	5,000 grams or more												
Very low birthweight 4 Low birthweight 5	Not stated	3,179	1,044	761	87	133	63_	779	463	210		82	1,274
Number N			_				Pe						
White, total 3,177,626 345,106 17,290 32,608 162,421 132,787 2,581,838 1,583,913 665,350 332,575 218,957 31,725 Less than 500 grams 3,422 3,305 3,150 139 16 - 111 8 - 3 1 105 500-999 grams 119,647 13,369 9,619 3,338 392 20 120 74 26 20 11 273 1,500-1,999 grams 19,647 18,226 2,536 10,487 4,829 374 1,014 720 185 109 127 280 1,500-1,999 grams 42,168 35,142 499 8,237 22,926 3,480 5,965 4,932 677 356 534 527 2,500-2,999 grams 432,739 92,366 569 2,536 41,799 47,462 366,525 27,915 61,502 27,108 24,039 4,805 3,000-3,499 grams 1184,917 73,113 - 3,241 29,127 40,745 1,020,027 569,643 247,047 113,337 80,502 11,275 3,000-3,999 grams 958,631 30,827 - 1,862 13,393 15,572 840,827 848,086 252,931 129,810 78,153 8,824 4,000-4,999 grams 45,001 1,052 - 486 556 38,762 17,080 12,753 8,929 4,812 4,800 4,999 grams 45,001 1,052 - 486 556 38,762 17,080 12,753 8,929 4,812 4,800 4,999 grams 45,001 1,052 - 486 556 38,762 17,080 12,753 8,929 4,812 455 5,000 grams or more 4,674 148 - 76 76 5 45.8 18.8 2.5 3.4 11.1 1.1 2.0 8.6 Vory low birthweight 4 12 10.1 91.0 42.9 3.2 0.3 0.0 0.1 0.0 0.0 0.0 0.1 2.1 Less than 500 grams 2,444 2,400 2,299 92 12 - 10 8 - 2 3 3 500-3999 grams 11,465 17,364 6,987 2,588 272 14 83 47 20 16 3 9,941 1,000-1,499 grams 11,465 17,374 1,475 1,475 9 49,371 243,897 155,423 12,167 Less than 500 grams 2,444 2,400 2,299 92 12 - 10 8 - 2 3 3 500-999 grams 11,465 13,364 6,987 2,588 272 14 83 47 20 16 3 9,941 1,000-1,499 grams 14,651 13,407 23,406 116,268 98,000 1,908,847 1,174,579 490,371 243,897 155,423 12,167 Less than 500 grams 2,444 2,400 2,299 92 12 - 10 8 4 7 20 16 3 9,941 1,000-1,499 grams 14,651 13,407 1,40	Very low birthweight ⁴ Low birthweight ⁵												2.5 9.7
Less than 500 grams							Nu	mber					
13,773	White, total	3,177,626	345,106	17,290	32,608	162,421	132,787	2,581,838	1,583,913	665,350	332,575	218,957	31,725
1,000-1,499 grams	Less than 500 grams						-			-			105
1 500-1 999 grams													
2,000-2,499 grams													
2 500 2 999 grams													
3,000_3,499 grams													
3,500_3,999 grams													
4,000_4,999 grams													
4,500-4,999 grams					1,862								
5,000 grams or more					-								
Not stated					-								
Very low birthweight 4													
Very low birthweight 4 1.2 10.1 91.0 42.9 3.2 0.3 0.0 0.1 0.0 0.0 0.1 2.1 Number White, non-Hispanic 2,326,578 250,141 12,467 23,406 116,268 98,000 1,908,847 1,174,579 490,371 243,897 155,423 12,167 Less than 500 grams 2,444 2,400 2,296 92 12 - 10 8 - 2 - 34 500-999 grams 10,026 9,841 6,987 2,568 272 14 83 47 20 16 3 95 1,000-1,499 grams 14,651 13,782 1,846 8,004 3,653 279 666 476 114 76 84 115,1500-1,999 grams 31,573 26,717 318 6,226 17,585 2,588 4,284 3,603 438 243 366 20 2,000-2,499 grams 98,542 53,462 304 1,796 35,375 15,987 41,934 34,975 4,700 2,259 2,519 627 2,500-2,999 grams 845,514 68,171 373 1,518 30,385 35,895 259,272 198,616 42,152 18,504 16,379 1,692 3,000-3,999 grams 847,001 49,976 - 1,975 18,457 29,544 737,652 48,008 175,954 79,600 55,447 33,000-3,999 grams 717,844 20,212 - 1,177 8,147 10,888 637,671 349,311 191,141 97,219 56,507 3,450 4,000 4,499 grams 218,568 4,260 1,975 18,457 29,544 737,652 48,008 175,954 79,609 55,447 33,500-3,999 grams 35,170 705 322 383 30,563 13,342 10,133 7,088 3,687 215 5,000 grams or more 3,470 93 444 49 2,960 1,402 857 701 402 11 Not stated	Not stated	2,330	685	468	62	101	54	613	359	164		68	964
White, non-Hispanic Control of the control of t							Pe	rcent					
White, non-Hispanic 2,326,578 250,141 12,467 23,406 116,268 98,000 1,908,847 1,174,579 490,371 243,897 155,423 12,167 Less than 500 grams 2,444 2,400 2,296 92 12 - 10 8 - 2 - 34 500-999 grams 10,026 9,841 6,987 2,568 272 14 83 47 20 16 3 95 1,000-1,499 grams 14,651 13,782 1,846 8,004 3,653 279 666 476 114 76 84 115 1,500-1,999 grams 31,573 26,717 318 6,226 17,585 2,588 4,284 3,603 438 243 366 20 2,000-2,499 grams 98,542 53,462 304 1,796 35,375 15,987 41,934 34,975 4,700 2,259 2,519 627 2,500-2,999 grams 345,514 68,171 373 1,518 30,385 35,895 259,272 198,616 42,152 18,504 16,379 1,692 3,000-3,499 grams 847,001 49,976 - 1,975 18,457 29,544 737,652 482,008 175,954 79,690 55,447 3,500-3,999 grams 717,844 20,212 - 1,177 8,147 10,888 637,671 349,311 191,141 97,219 56,507 3,454 4,000-4,499 grams 218,568 4,260 - 1,975 18,457 29,544 737,652 482,008 175,954 79,690 55,447 3,926 3,000-4,999 grams 35,170 705 - 322 383 30,563 13,342 10,133 7,088 3,687 215 5,000 grams or more 3,470 93 - 44 49 2,960 1,402 857 701 402 15 Not stated 7175 522 343 50 85 44 525 306 144 75 51 677	Very low birthweight 4 Low birthweight 5												2.1 8.6
Less than 500 grams 2,444 2,400 2,296 92 12 - 10 8 - 2 - 34 500-999 grams 10,026 9,841 6,987 2,568 272 14 83 47 20 16 3 95 1,000-1,499 grams 14,651 13,782 1,846 8,004 3,653 279 666 476 114 76 84 115 1,500-1,999 grams 31,573 26,717 318 6,226 17,585 2,588 4,284 3,603 438 243 366 206 2,000-2,499 grams 98,542 53,462 304 1,796 35,375 15,987 41,934 34,975 4,700 2,259 2,519 627 2,500-2,999 grams 345,514 68,171 373 1,518 30,385 35,895 259,272 198,616 42,152 18,504 16,379 1,692 3,000-3,499 grams 847,001 49,976 - 1,975 18,457 29,544 737,652 482,008 175,954 79,690 55,447 3,926 3,500-3,999 grams 717,844 20,212 - 1,177 8,147 10,888 637,671 349,311 191,141 97,219 56,507 3,454 4,000-4,499 grams 218,568 4,260 - 1,177 8,147 10,888 637,671 349,311 191,141 97,219 56,507 3,454 4,000-4,499 grams 35,170 705 - 322 383 30,563 13,342 10,133 7,088 3,687 215 5,000 grams or more 3,470 93 - 444 49 2,960 1,402 857 701 402 11 Not stated 71,775 522 343 50 85 44 525 306 144 75 51 677							Nu	mber					
500-999 grams	White, non-Hispanic	2,326,578	250,141	12,467	23,406	116,268	98,000	1,908,847	1,174,579	490,371	243,897	155,423	12,167
1,000-1,499 grams	Less than 500 grams						-			-			34
1,500-1,999 grams 31,573 26,717 318 6,226 17,585 2,588 4,284 3,603 438 243 366 206 2,000-2,499 grams 98,542 53,462 304 1,796 35,375 15,987 41,934 34,975 4,700 2,259 2,519 627 2,500-2,999 grams 345,514 68,171 373 1,518 30,385 35,895 259,272 198,616 42,152 18,504 16,379 1,692 3,000-3,499 grams 847,001 49,976 - 1,975 18,457 29,544 737,652 482,008 175,954 79,690 55,447 3,926 3,500-3,999 grams 717,844 20,212 - 1,177 8,147 10,888 637,671 349,311 191,141 97,219 56,507 3,454 4,000-4,499 grams 218,568 4,260 - 1,177 8,147 10,888 637,671 349,311 191,141 97,219 56,507 3,454 4,000-4,499 grams 35,170 705 - 1,931 2,329 193,227 90,485 64,718 38,024 19,978 1,103 4,500-4,999 grams 35,170 705 - 322 383 30,563 13,342 10,133 7,088 3,687 215 8,000 grams or more 3,470 93 - 44 49 2,960 1,402 857 701 402 15 Not stated 3,470 93 - 44 49 2,960 1,402 857 701 402 15 Not stated 1,775 522 343 50 85 44 525 306 144 75 51 677 877 878 878 878 878 878 878 878 878					2,568								
2,000-2,499 grams 98,542 53,462 304 1,796 35,375 15,987 41,934 34,975 4,700 2,259 2,519 627 2,500-2,999 grams 345,514 68,171 373 1,518 30,385 35,895 259,272 198,616 42,152 18,504 16,379 1,692 3,000-3,499 grams 847,001 49,976 - 1,975 18,457 29,544 737,652 482,008 175,954 79,690 55,447 3,926 3,500-3,999 grams 717,844 20,212 - 1,177 8,147 10,888 637,671 349,311 191,141 97,219 56,507 3,454 4,000-4,499 grams 218,568 4,260 - 1,177 8,147 10,888 637,671 349,311 191,141 97,219 56,507 3,454 4,000-4,499 grams 35,170 705 - 322 383 30,563 13,342 10,133 7,088 3,687 215 5,000 grams or more 3,470 93 - 44 49 2,960 1,402 857 701 402 15 Not stated 11,775 522 343 50 85 44 525 306 144 75 51 677 Percent Very low birthweight 4 1.2 10.4 91.8 45.7 3.4 0.3 0.0 0.0 0.0 0.0 0.0 0.1 2.2	1,000-1,499 grams	14,651			8,004	3,653							
2,500-2,999 grams						17,585							
3,000-3,499 grams													
3,500-3,999 grams													
4,000-4,499 grams													
4,500-4,999 grams					1,177								
5,000 grams or more					-								
Not stated		35,170	705										
Percent Very low birthweight 4 1.2 10.4 91.8 45.7 3.4 0.3 0.0 0.0 0.0 0.0 0.1 2.3	5,000 grams or more												
Very low birthweight 4 1.2 10.4 91.8 45.7 3.4 0.3 0.0 0.0 0.0 0.0 0.1 2.2	Not stated	1,775	522	343	50	85			306	144		51	6/7
	Very low birthweight 4 Low birthweight 5							0.0 2.5	0.0 3.3				2.2 9.4

See footnotes at end of table.



Table 43. Live births by birthweight and percent very low and low birthweight, by period of gestation and race and Hispanic origin of mother: United States, 2001 --Con.

						Peri	iod of gestati	on ²		<u>. </u>		
Birthweight ¹ and race and Hispanic origin	All		_	Preterm			_	Tern	n		Postterm	
of mother	births	Total under 37 weeks	Under 28 weeks	28-31 weeks	32-35 weeks	36 weeks	Total 37-41 weeks	37-39 weeks	40 weeks	41 weeks	42 weeks and over	Not stated
			-			Nu	mber			-		
Black, total	606,156	105,325	10,623	13,544	48,061	33,097	456,535	294,113	109,165	53,257	39,786	4,510
Less than 500 grams	2,317	2,257	2,166	81	9	1	4	4	_	_	1	55
500-999 grams 1,000-1,499 grams	7,893 8,223	7,752 7,644	5,964	1,637	145	6	41	27	11	3	10	90
1,500-1,499 grams	15,394	12,647	1,280 363	4,414 3,017	1,801 8,041	149 1,226	415 2,358	322 1,957	66 258	27 143	72 241	92 148
2,000-2,499 grams	44,596	22,169	240	1,234	13,904	6,791	20,756	16,985	2,545	1,226	1,292	379
2,500-2,999 grams	142,270	26,480	343	1,357	12,180	12,600	107,062	80,111	18,706	8,245	7,700	1,028
3,000-3,499 grams 3,500-3,999 grams	231,012	18,413	-	1,293	8,303	8,817	194,442	124,686	47,707	22,049	16,653	1,504
4,000-4,499 grams	122,521 26,695	6,388 1,028	-	491	3,003 542	2,894 486	104,752 22,752	57,105 10,939	31,331	16,316	10,641	740
4,500-4,999 grams	3,995	193	-	-	85	108	3,376	1,638	7,305 1,079	4,508 659	2,715 397	200 29
5,000 grams or more	544	31	-	-	18	13	449	256	123	70	53	1
Not stated	696	323	267	20	30	6	128	83	34	11		234
						Per	rcent	_			_	
Very low birthweight 4 Low birthweight 5	3.0 13.0	16.8 50.0	90.9 96.7	45.3 76.8	4.1 49.8	0.5 24.7	0.1 5.2	0.1 6.6	0.1 2.6	0.1 2.6	0.2 4.1	5.5 17.9
						Nur	mber			_		
Black, non-Hispanic	589,917	103,237	10,448	13,271	47,147	32,371	443,805	286,476	105,748	51,581	38,586	4,289
Less than 500 grams	2,271	2,214	2,124	80	9	1	4	4	_	_	1	52
500-999 grams	7,775	7,639	5,870	1,621	142	6	41	27	11	3	10	85
1,000-1,499 grams	8,075	7,512	1,261	4,327	1,776	148	403	316	61	26	70	90
1,500-1,999 grams 2,000-2,499 grams	15,104 43,772	12,412 21,771	357 236	2,941 1,211	7,911	1,203	2,312	1,922	254	136	237	143
2,500-2,999 grams	139,276	25,985	336	1,326	13,657 11,976	6,667 12,347	20,376 104,782	16,670 78,468	2,499 18,268	1,207 8,046	1,266 7,523	359 986
3,000-3,499 grams	224,616	17,967	-	1,263	8,109	8,595	189,047	121,402	46,243	21,402	16,173	1,429
3,500-3,999 grams	118,393	6,208	-	482	2,918	2,808	101,201	55,250	30,226	15,725	10,269	715
4,000-4,499 grams	25,612	989	-	-	519	470	21,837	10,514	7,001	4,322	2,598	188
4,500-4,999 grams 5,000 grams or more	3,843 522	192 30	-	•	85 17	107	3,249	1,580	1,034	635	378	24
Not stated	658	318	264	20	17 28	13 6	431 122	243 80	119 32	69 10	50 11	11 207
									- 32	10		
Very low birthweight 4	3.1	16.9	90.9	45.5	4.1	0.5	cent 0.1			0.1		
Low birthweight 5	13.1	50.1	96.7	76.8 ———	49.9	24.8	5.2	0.1 6.6	0.1 2.7	0.1 2.7	0.2 4.1	5.6 17.9
	_					Nun	nber			_		_
Hispanic ⁶	851,851	95,373	4,787	9,295	46,341	34,950	674,019	410,111	175,245	88,663	63,839	18,620
Less than 500 grams	925	859	807	49	3	-	-	-	-	-	1	65
500-999 grams	3,748	3,534	2,641	767	120	6	37	27	_6	4	8	169
1,000-1,499 grams 1,500-1,999 grams	5,006 10,621	4,450 8,439	691 184	2,497 2,032	1,168	94	356	247	76	33	44	156
2,000-2,499 grams	34,792	16,974	143	2,032 918	5,334 10,822	889 5,091	1,706 15,934	1,348 12,921	241 2,062	117 951	173 1,093	303
2,500-2,999 grams	143,068	24,300	197	1,044	11,452	11,607	108,023	79,801	19,518	8,704	7,756	791 2,989
3,000-3,499 grams	338,951	23,334	-	1,284	10,762	11,288	283,310	178,133	71,443	33,734	25,228	7,079
3,500-3,999 grams 1,000-4,499 grams	240,284	10,697	-	692	5,285	4,720	202,748	108,572	61,648	32,528	21,674	5,165
1,500-4,999 grams	63,091 9,792	2,222 348	-	-	1,178 174	1,044 174	52,771 8.088	24,799	17,363	10,609	6,585	1,513
5,000 grams or more	1,197	54	-	-	26	28	8,088 959	3,706 503	2,589 280	1,793 176	1,129 132	227
Not stated	376	162	124	12	17	-9	87	54	19	14	16	52 111
						Perd	cent					
ery low birthweight 4	1.1	9.3	88.8	35.7	2.8	0.3	0.1	0.1	0.0	0.0	0.1	2.1
ow birthweight 5	6.5	36.0	95.8	67.5	37.7	17.4	2.7	3.5	1.4	1.2	2.1	8.0



⁻ Quantity zero.
0.0 Quantity more than zero but less than 0.05.
1 Equivalents of the gram weights in pounds and ounces are shown in the Technical notes.
2 Expressed in completed weeks.
3 Includes races other than white and black and origin not stated.
4 Birthweight of less than 1,500 grams (3 lb 4 oz).
5 Birthweight of less than 2,500 grams (5 lb 8 oz).
6 Includes all persons of Hispanic origin of any race.

Table 44. Percent of live births very preterm and preterm and percent of live births of very low birthweight and low birthweight, by race and Hispanic origin of mother: United States, 1981-2001

			Very pre	eterm 1					Prete	erm ²		
Year		w	hite	BI	ack	_		w	hite	BI	ack	
	All races 3	Total _	Non- Hispanic	Total	Non- Hispanic	Hispanic ⁴	All races 3	Total	Non- Hispanic	Total	Non- Hispanic	Hispanic 4
	4.05	4.50	4 55	4.00	4.05	1.60	11.0	11.0	10.8	17.5	17.6	11.4
2001	1.95	1.59	1.55	4.02	4.05	1.69 1.69	11.9 ·11.6	10.6	10.6	17.3	17.4	11.2
000	1.93	1.55	1.51	4.04	4.09					17.5		11.4
999	1.96	1.57	1.54	4.13	4.18	1.68	11.8	10.7	10.5		17.6	11.4
98	1.96	1.57	1.52	4.11	4.15	1.72	11.6	10.5	10.2	17.5	17.6	
97	1.94	1.53	1.49	4.17	4.19	1.68	11.4	10.2	9.9	17.5	17.6	11.2
96	1.89	1.48	1.43	4.13	4.17	1.66	11.0	9.8	9.5	17.4	17.5	10.9
95	1.89	1.46	1.41	4.25	4.29	1.66	11.0	9.7	9.4	17.7	17.8	10.9
994	1.91	1.45	1.39	4.32	4.36	1.67	11.0	9.6	9.3	18.1	18.2	10.9
993	1.93	1.45	1.39	4.41	4.45	1.67	11.0	9.5	9.1	18.5	18.6	11.0
92 7	1.91	1.40	1.33	4.47	4.50	1.64	10.7	9.1	8.7	18.4	18.5	10.7
91 7	1.94	1.41	1.35	4.62	4.65	1.65	10.8	9.1	8.7	18.9	19.0	11.0
90 ⁸	1.92	1.39	1.33	4.61	4.63	1.69	10.6	8.9	8.5	18.8	18.9	11.0
989 9	1.95	1.41	1.34	4.64	4.68	1.76	10.6	8.8	8.4	18.9	19.0	11.1
				4.72	4.00		10.2	8.5		18.7		
	1.96	1.42		4.61			10.2	8.5		18.4		
87	1.96	1.44										
86	1.90	1.41		4.47			10.0	8.4		18.0		
85	1.88	1.42		4.37			9.8	8.2		17.8		
84	1.83	1.38		4.22			9.4	7.9		17.1		
83	1.86	1.40		4.34			9.6	8.0		17.7		
82	1.84	1.40		4.22			9.5	8.0		17.4		
981	1.81	1.37		4.13			9.4	7.9		17.3		
			Very low bi	rthweight ⁵				Low birt				
		w	hite	В	lack			. W	/hite	В	lack	-
	All races 3	Total	Non- Hispanic	Total	Non- Hispanic	- Hispanic ⁴	All races ³	Total	Non- Hispanic	Total	Non- Hispanic	Hispanic ⁴
	10065	TOLOI	- inspaint		- Inspanto	поратно		1014	nopunio	10101	. noparito	- 1000
001	1.44	1.16	1.17	3.04	3.08	1.14	7.7	6.7	6.8	13.0	13.1	6.5
000	1.43	1.14	1.14	3.07	3.10	1.14	7.6	6.5	6.6	13.0	13.1	6.4
999	1.45	1.15	1.15	3.14	3.18	1.14	7.6	6.6	6.6	13.1	13.2	6.4
998	1.45	1.15	1.15	3.08	3.11	1.15	7.6	6.5	6.6	13.0	13.2	6.4
997	1.42	1.13	1.12	3.04	3.05	1.13	7.5	6.5	6.5	13.0	13.1	6.4
206	1.37	1.09	1.08	2.99	3.02	1.12	7.4	6.3	6.4	13.0	13.1	6.3
996							7.4	6.2	6.2	13.1	13.2	6.3
995	1.35	1.06	1.04	2.97	2.98.	1.11		6.1	6.1	13.1	13.3	6.2
994	1.33	1.02	1.01	2.96	2.99	1.08	7.3					
993	1.33	1.01	1.00	2.96	2.99	1.06	7.2	6.0	5.9	13.3	13.4	6.2
992 7	1.29	0.96	0.94	2.96	2.97	1.04	7.1	5.8	5.7	13.3	13.4	6.1
991 7	1.29	0.96	0.94	2.96	2.97	1.02	7.1	5.8	5.7	13.6	13.6	6.1
990 ⁸	1 27	0.95	0.93	2 92	2.93	1.03	7.0	5.7	5.6	13.3	13.3	6.1

1990 ⁸

1989 9

1988

1987

1986

1985

1984

1983

1982

1981

1.27

1.28

1.24

1.21

1.21

1.19

1.19

1.18

1.16

0.95

0.95

0.93

0.94

0.93

0.93

0.93

0.92

0.91

0.91

0.93

0.93

2.92

2.95

2.86

2.79

2.73

2.71

2.60

2.60

2.56

2.52

2.93

2.97

1.03

1.05

7.0

7.0

6.9

6.9

6.8

6.8

6.7

6.8

6.8

6.8

5.7

5.7

5.7

5.7

5.7

5.7

5.6

5.7

5.6

13.5

13.3

13.0

12.8

12.6

12.6

12.8

12.6

12.7

5.6

5.6

13.6

6.2

Data not available.

Births of less than 32 completed weeks of gestation.
Births of less than 37 completed weeks of gestation.
Includes races other than white and black and origin not stated.

Includes all persons of Hispanic origin of any race. Less than 1,500 grams (3 lb. 4 oz.). Less than 2,500 grams (5 lb. 8 oz.). 6 7 8

Data by Hispanic origin exclude New Hampshire, which did not report Hispanic origin.

Data by Hispanic origin exclude New Hampshire and Oklahoma, which did not report Hispanic origin.

Data by Hispanic origin exclude New Hampshire, Oklahoma, and Louisiana, which did not report Hispanic origin.

Table 45. Number and percent low birthweight and number of live births by birthweight, by age and race and Hispanic origin of mother: United States, 2001

										,					
•	Low birthweight	eight 1							Birthweight 2						
Age and race and Hispanic origin of mother	Number	Percent	Total	Less than 500 grams	500- 999 grams	1,000- 1,499 grams	1,500- 1,999 grams	2,000- 2,499 grams	2,500- 2,999 grams	3,000- 3,499 grams	3,500- 3,999 grams	4,000- 4,499 grams	4,500- 4,999 grams	5,000- grams or more	Not stated
All races ³															
All ages	308,747	7.7	4,025,933	5,956	22,648	29,250	60,804	190,089	680,580	1,515,171	1,139,280	322,346	51,132	5,498	3,179
Under 15 years 15 years 15 years 16 years 17 years 18 years 20-24 years 30-34 years 35-39 years	994 42,006 2,265 4,770 7,799 11,968 11,968 15,204 79,148 71,837 66,297 9,373	12.8 9.9 10.15 10.	7,781 445,944 20,150 45,367 79,807 128,361 1,021,627 1,058,255 942,697 451,723 92,891	23 820 39 39 44 154 1,55 1,237 707	3,266 199 390 390 587 918 1,172 5,299 5,249 5,249 2,735 681	106 3,797 218 461 711 1,043 1,364 7,012 6,436 3,968	194 7,851 455 872 1,481 2,275 2,275 2,768 14,797 13,765 13,765 13,765 13,765 13,765 13,765	564 26,272 1,354 1,354 2,953 4,492 9,607 50,189 44,512 39,902 22,500	2,001 97,504 4,810 10,502 18,064 27,557 36,571 192,780 167,738 137,050 67,798 15,194	3,135 180,759 8,223 18,526 32,401 51,233 70,376 403,068 339,296 339,296 339,296 339,296 339,206 339,206 339,206 339,206 339,206	1,425 101,564 4,039 9,595 17,605 28,859 41,466 269,204 313,419 291,228 135,228 135,228	197 21,122 7122 1,745 3,461 3,461 9,272 66,597 89,842 91,064 44,402 8,749	13 2,427 79 181 181 662 1,120 9,192 14,229 15,498 15,498 16,99	205 6 17 102 102 893 1,554 1,554 1,557 211	357 367 31 61 101 148 745 815 8815 683 683 663 450
White, total	3		8	ס	ţ	2	- 72	0/6	000	4	-, 148 8	6/6	5	2	20
Ali ages	212,228	6.7	3,177,626	3,422	13,773	19,647	42,168	133,218	487,739	1,184,917	958,631	282,026	45,081	4,674	2,330
Under 15 years 15 years 16 years 17 years 18 years 19 years 25-29 years 30-34 years 40-44 years	428 25,560 1,221 2,762 4,711 7,358 9,508 51,180 50,543 48,973 27,920 6,766 858	10.5 8 9.7 9 9.7 9 9.7 7.4 7.4 7.6 6.6 6.6 6.6 6.6 9.1 9.1 9.1 9.1 9.1 9.1 9.1 9.1 9.1 9.1	4,095 318,563 12,584 30,510 56,098 91,284 177,9529 850,343 777,294 777,294 777,294 4,130	447 447 18 49 87 132 161 785 785 780 780 780 780 780	51 1,828 93 225 312 528 670 3,185 3,212 3,191 1,803 454	2,224 123 260 260 411 621 809 4,332 4,768 4,881 2,828 664 105	87 4,731 248 489 891 1,721 1,721 9,509 9,509 9,509 10,373 1,455 1,455	234 16,330 739 1,739 3,010 4,695 6,147 3,359 31,886 29,948 16,887 4,102 472	965 63,291 2,708 6,358 11,630 18,135 24,460 134,596 122,414 103,427 50,950 11,331	1,660 130,427 5,242 12,652 23,053 37,664 317,321 275,392 126,248 25,051	883 79,646 2,829 7,181 13,568 22,893 33,175 220,205 286,557 220,74 116,068 116,068	142 511 511 1,388 2,767 4,879 7,750 56,725 56,725 39,343 7,700	9 1,979 58 145 311 553 912 7,905 12,579 11,508 1,508	150 3 8 19 36 84 1,335 1,335 1,435 821 171	215 12 12 16 18 18 18 18 18 18 18 18 18 18 18 18 18
White, non-Hispanic	157 236	œ	9 396 678	0 444	900	14 651	5	90	7.7	7	1	9		į	ļ
Under 15 years 15-19 years 15 years 16 years 17 years 18 years 19 years 20-24 years 25-29 years 35-39 years 46-54 years	15, 903 15, 903 16, 903 1, 490 2, 809 4, 660 6, 37 39, 362 22, 534 5, 419 5, 419	2. 1.3 9.9 9.9 9.9 9.9 9.9 9.9 6.1 9.0 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5	1,581 1,581 190,161 5,765 31,409 82,040 82,304 622,361 625,435 300,007 60,614 3,392	5 287 287 287 28 28 56 553 623 581 581 57	24 1,205 1,205 144 128 197 357 479 2,222 2,342 2,342 1,358 1,358 1,358 1,358 1,414	1,031 1,416 1,416 152 152 248 3,974 3,742 3,742 2,291 5,18	2,375 38 2,975 1,161 6,528 7,380 1,176 1,176	20,342 336 336 1,775 2,919 2,919 2,919 2,148 13,888 3,308 4,01	33, 21, 21, 22, 21, 21, 22, 21, 21, 22, 21, 21	27, 501 2, 283 6, 201 12, 374 21, 896 32, 588 201, 510 227, 970 218, 975 101, 536 20, 146	396 49,343 1,422 3,843 7,970 14,283 21,825 150,353 197,780 205,351 95,641 18,194	68 11,552 287 287 846 1,758 3,307 5,354 40,557 59,827 67,182 67,182 67,182	35,170 1,349 36 82 200 394 637 5,744 9,578 11,393 1,218	3,470 97 97 10 10 1,101 635 142 7	1,775 3 132 7 7 8 45 45 361 476 72 72

See footnotes at end of table.



Table 45. Number and percent low birthweight and number of live births by birthweight, by age and race and Hispanic origin of mother: United States, 2001—Con.

	Low birthweight 1	eight 1							Birthweight ²						
Age and race and Hispanic origin of mother	Number	Percent	Total	Less than 500 grams	500- 999 grams	1,000- 1,499 grams	1,500- 1,999 grams	2,000- 2,499 grams	2,500- 2,999 grams	3,000- 3,499 grams	3,500- 3,999 grams	4,000- 4,499 grams	4,500- 4,999 grams	5,000- grams or more	Not stated
Black, total															
All ages	78,423	13.0	606,156	2,317	7,893	8,223	15,394	44,596	142,270	231,012	122,521	26,695	3,995	54	969
Under 15 years	541 14,984 9784 1,841 2,849 4,214 5,106 24,694 16,436	7. 6. 4. 4. 6. 6. 6. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7.	3,455 110,843 6,881 13,183 20,778 30,516 39,485 199,221 137,400	21.2 21.2 20.1 120 77.8 56.2 39.2 39.2	54 1,336 197 147 261 360 471 2,227 1,820 1,820	58 1,455 91 185 290 393 496 2,448 1,735	102 2,842 195 348 533 823 823 943 4,738 3,119 2,490	315 9,000 570 1,118 1,700 2,536 3,076 14,563 9,547	974 30,536 1,963 3,749 5,798 8,370 10,656 49,110 29,389	1,382 43,648 2,699 5,250 8,108 12,018 15,573 77,832 52,558 34,619	499 1,066 2,006 3,404 4,974 6,761 38,774 30,285 21,679	48 2,961 156 288 235 821 1,161 7,1450 7,1450 5,555	336 336 17 29 56 1,086 954 954	1 4 4 5 6 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	6 126 4 4 12 12 32 33 58 51 157
35-39 years 40-44 years 45-54 years	7,503 7,503 1,881 112		49,065 11,001 511	239 36 4	797 176 4	241 19	1,658 413 32	3,903 1,015 53	10,214 2,410 111	16,986 3,721 164	10,739 2,238 96	2,906 599 21	549 121 5	91 2	75
Black, non-Hispanic	760 97	ç	580 017	9 971	7775	8.075	15 104	43 772	139.276	224.616	118.393	25.612	3.843	255	. 829
All ages	/66'9/	13.1	716,880	2,271	C//'/	c/n'o	<u>.</u>	2//2	03,20	010,422	5		}	1	3
Under 15 years	535 14,712 1961 1,961 12,736 24,313 24,313 16,109 12,016 7,348 1,348 1,348 1,348	15.8 13.6 13.6 13.0 13.0 12.5 12.5 14.4 15.5 15.5 16.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17	3,401 108,252 6,735 12,879 20,293 29,794 38,551 194,391 133,491 10,691 10,691	24 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	54 1312 95 142 258 351 466 2200 1,794 1,457 179	58 89 89 182 283 285 486 2,410 1,704 1,335 888 888 888 237	2,801 194 346 324 524 810 927 2,427 1,618 499 32	311 8,828 563 1,088 1,666 2,494 3,017 14,338 9,010 6,407 3,829 9,988	965 29,907 1,927 3,667 3,667 6,675 10,443 48,226 28,952 18,829 9,950 2,344 103	1,358 42,591 2,642 5,131 7,904 11,725 11,725 15,189 75,943 75,943 71,031 16,413 33,522 16,413 3600	486 17,707 1,037 1,955 3,324 4,825 6,566 37,548 29,212 29,212 20,860 10,316 2,173	46 2,850 147 279 279 1,118 7,156 6,853 5,335 2,778 2,778	326 156 167 1048 1175 1176 1176 1176 1176 1176 1176 1176	28 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	6 11 11 11 11 146 146 17 17 17
Hispanic 4										,			,	,	į
All ages	55,092	6.5	851,851	925	3,748	900'9	10,621	34,792	143,068	338,951	240,284	63,091	9,792	1,197	376
Under 15 years	252 9,821 1,294 1,394 2,741 3,197 15,933 1,317 1,317 1,317	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	2,555 130,007 6,936 15,165 25,023 36,298 46,585 258,431 227,910 150,352 67,952 13,956	6 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	27 633 51 99 114 176 193 971 866 709 79	26 817 72 72 102 102 229 229 229 1,191 930 930 140	51 125 125 232 332 370 574 3,002 2,435 1,941 1,097 276 31	142 6,429 406 837 1,253 1,807 10,377 8,088 5,750 3,159 786	641 27,321 1,576 3,359 5,466 7,470 9,450 46,415 34,469 21,721 10,161 2,215	1,080 3,010 6,516 6,516 10,822 15,628 19,763 107,086 89,477 56,028 24,461 4,862	498 30,570 1,435 3,532 8,632 11,435 70,238 68,649 46,125 20,119 3,922 163	75 802 227 227 529 540 1,035 1,580 1,580 1,627 19,067 1,067 1,067 6,436 53	6.25 6.22 6.22 6.22 6.23 6.27 6.27 6.27 6.27 6.27 6.27 6.27 6.27	24 13 13 13 14 18 18 18 18 18 18 18 18	4 8 8 4 4 6 10 10 10 10 10 10 10 10 10 10 10 10 10

Quantity zero.
 Less than 2,500 grams (5 lb 8 oz).
 Equivalents of gram weights in terms of pounds and ounces are shown in Technical notes.
 Includes races other than white and black and origin not stated.
 Includes all persons of Hispanic origin of any race.



Table 46. Number and percent of births of low birthweight by race and Hispanic origin of mother: United States, each State and territory, 2001

[By place of residence. Low birthweight is birthweight of less than 2,500 grams (5 lb 8 oz)]

			Numi	ber					Per	cent		
		W	nite	Bla	ack	_		W	nite	Bla	ack	_
State	All races ¹	Total	Non- Hispanic	Total	Non- Hispanic	Hispanic ²	All races ¹	Total	Non- Hispanic	Total	Non- Hispanic	Hispanic ²
United States ³	308,747	212,228	157,236	78,423	76,997	55,092	7.7	6.7	6.8	13.0	13.1	6.5
Alabama	5,812	3,070	2,914	2,687	2,687	155	9.6	7.6	7.6	14.0	14.0	6.9
Alaska	566	333	277	48	42	41	5.7	5.2	5.0	10.9	10.8	6.3
Arizona	5,957	5,010	2,603	378	368	2,399	7.0	6.7	6.7	13.7	14.4	6.6
Arkansas	3,250	2,148	1,988	1,044	1,044	157	8.8	7.5	7.6	14.1	14.1	5.9
California	33,228	24,661	9,838	3,907	3,795	14,784	6.3	5.8	5.9	11.6	11.7	5.7
Colorado	5,720	5,007	3,391	415	400	1,657	8.5	8.2	8.1	14.0	14.1	8.4
Connecticut	3,143	2,370	1,786	621	603	565	7.4	6.7	6.3	12.1	12.2	8.2
Delaware	996 924	589	519	372	371	70	9.3	7.7	7.9	13.7	13.8	6.5
District of Columbia		163	106	743	737	58	12.1	6.3	6.3	15.3	15.3	6.5
Florida	16,776	10,386	7,292	5,878	5,753	3,222	8.2	6.8	7.0	12.5	12.5	6.5
Georgia	11,750	5,771	4,851	5,624	5,555	889	8.8	6.7	7.0	12.9	12.9	5.7
daha	1,385	247	210	60	57	171	8.1	6.5	6.7	11.4	11.5	7.6
daho	1,326	1,275	1,063	9	4 505	187	6.4	6.4	6.3			6.8
llinois	14,731	9,463	6,795	4,558	4,535	2,689	8.0	6.6	6.7	13.7	13.8	6.6
ndiana	6,569	5,225	4,825	1,242	1,237	389	7.6	7.0	7.0	12.9	13.0	6.6
owa	2,409	2,160	2,023	173	168	139	6.4	6.1	6.1	13.7	13.6	6.2
Kansas	2,709	2,247	1,939	345	340	292	7.0	6.5	6.6	12.4	12.4	6.0
Kentucky	4,539	3,828	3,713	660	656	115	8.3	7.8	7.8	13.4	13.4	7.7
Louisiana Maine	6,825 830	2,831 800	2,731 793	3,883 14	3,875 12	103 7	10.4 6.0	7.7 6.0	7.7 6.1	14.4	14.4	6.6
Maryland	6,580	3,144	2,779	3,134	2 117	005	9.0	7.0	7.0	10.0	40.0	0.0
Massachusetts	5,773	4,574	3,863	832	3,117 710	365 778	7.2	7.0	7.0	12.9	13.0	6.9
Michigan	10,642	6,971	6,406	3,317	3,300	453	8.0	6.8 6.6	6.5 6.7	10.2	10.9	8.3
Minnesota	4,254	3,426	3,116	467	460	280	6.3	5.9	5.7 5.9	14.1 9.8	14.1	6.2
Mississippi	4,505	1,769	1,720	2,683	2,681	50	10.7	7.8	7.8		9.8	6.2
Missouri	5,741	4,189	4,020	1,406	1,402	169	7.6	6.7	7.8 6.8	14.3	14.3 12.7	7.0
Montana	758	655	613	1,400	1,402	30	6.9	6.9	7.0	12.6	12.7	5.7 8.0
Nebraska	1,649	1,409	1,205	170	169	183	6.6	6.3	6.3	12.4	12.5	6.2
Vevada	2,380	1,852	1,148	326	307	691	7.6	7.0	7.5	13.0	12.5	6.4
New Hampshire	957	898	785	29	22	30	6.5	6.4	6.1	13.9	13.8	5.9
New Jersey	9,170	5,787	4,231	2,595	2,442	1,647	7.9	6.8	6.7	12.6	13.1	7.0
New Mexico	2,145	1,799	682	67	66	1,124	7.9	7.9	7.8	13.1	13.6	8.0
lew York	19,481	12,151	8,331	5,892	5,457	4,050	7.7	6.7	6.4	11.3	11.7	7.4
North Carolina	10,572	6,258	5,371	3,906	3,894	890	8.9	7.3	7.6	13.8	13.8	6.1
North Dakota	472	405	380	5	5	11	6.2	6.1	6.0	•	•	•
Ohio	12,094	8,811	8,480	3,069	3,049	319	8.0	7.0	7.0	13.4	13.4	7.0
Oklahoma	3,908	2,846	2,552	628	625	292	7.8	7.3	7.4	13.6	13.7	5.9
Oregon	2,512	2,217	1,782	95	91	440	5.5	5.4	5.3	10.1	10.0	5.6
Pennsylvania	11,346	8,238	7,483	2,771	2,693	721	7.9	6.9	6.8	13.7	13.7	8.8
Rhode Island	931	738	501	131	118	167	7.3	6.7	6.5	11.8	11.9	7.6
South Carolina	5,340	2,613	2,427	2,647	2,638	196	9.6	7.3	7.4	14.0	14.0	6.6
outh Dakota	671	535	514	6	6	21	6.4	6.3	6.2	*	•	8.2
ennessee	7,212	4,833	4,584	2,252	2,249	253	9.2	8.0	8.1	13.6	13.6	6.5
Texas	27,603	21,377	9,535	5,242	5,195	11,820	7.6	6.9	6.9	12.9	12.9	6.9
Jtah	3,077	2,902	2,408	37	36	485	6.4	6.4	6.2	10.8	11.1	7.4
/ermont	377	369	353	1	1	1	5.9	5.9	5.9	•	•	•
/irginia	7,761	4,587	4,066	2,775	2,753	527	7.9	6.5	6.6	12.5	12.5	5.8
Vashington	4,599	3,711	3,036	324	318	636	5.8	5.5	5.6	9.8	10.0	5.2
Vest Virginia	1,730	1,637	1,625	81	81	4	8.5	8.4	8.4	11.5	11.6	•
Visconsin Vyoming	4,552 510	3,485 458	3,177 406	861 11	857 10	318 52	6.6 8.3	5.9 8.0	5.8 7.9	13.1	13.2	6.2 9.1
-										,		
Puerto Rico /irgin Islands	6,264	5,710		554	100		11.2	11.1		12.1		
ngin islanus	161	33	4	117	102	36	9.7	9.0	-	9.5	9.4	9.4
Buam Imerican Samoa	287	9	8	2	2	3	8.1	-	-		•	•
Northern Marianas	65	;					3.9					
TOTALICITE IVIALIZAÇÃO	120	1		-			8.3	•		•		***

^{*} Figure does not meet standards of reliability or precision; based on fewer than 20 births in the numerator.
--- Data not available.
-- Quantity zero.
Includes races other than white and black and origin not stated.
Includes all persons of Hispanic origin of any race.
Excludes data for the territories.



Table 47. Number and percent of births of very low birthweight by race and Hispanic origin of mother: United States, each State and territory, 2001

[By place of residence. Very low birthweight is birthweight of less than 1,500 grams (3 lb 4 oz)]

		_	Numt	oer					Per	cent		
		Wh	nite	Bla	ick			W	nite	Bla	ack	
State	All races ¹	Total	Non- Hispanic	Total	Non- Hispanic	Hispanic ²	All races 1	Total	Non- Hispanic	Total	Non- Hispanic	Hispanic ²
United States ³	57,854	36,842	27,121	18,433	18,121	9,679	1.4	1.2	1.2	3.0	3.1	1.1
Alabama	1,174	524	497	642	642	27	1.9	1.3	1.3	3.3	3.4	1.2
Alaska	126	72	58	12	12	10	1.3	1.1	1.0	•	•	•
Arizona	909	763	393	72	70	365	1.1	1.0	1.0	2.6	2.7	1.0
Arkansas	598	348	312	245	245		1.6	1.2	1.2	3.3	3.3	1.3
California	6,014	4,441	1,691	925	902		1.1	1.0 1.2	1.0	2.7 2.5	2.8 2.6	1.0 1.3
Colorado	840 640	730 437	470 320	75 184	74 179	263 114	1.3 1.5	1.2	1.1 1.1	2.5 3.6	3.6	1.6
Connecticut Delaware	185	83	70	98	97		1.7	1.1	1.1	3.6	3.6	1.0
District of Columbia	206	26	14	176	174		2.7	1.0	٠٠;	3.6		
Florida	3,269	1,790	1,273	1,399	1,372		1.6	1.2	1.2	3.0		1.1
Georgia	2,296	978	828	1,266	1,252		1.7	1.1	1.2	2.9	2.9	0.9
Hawaii	206	36	33	12	12		1.2	0.9	1.1		:	0.9
Idaho	193	187	146	1 000	1 015		0.9	0.9	0.9	9.4	2 4	1.3
Illinois	2,833 1,212	1,716 919	1,269 835	1,020 277	1,015 277	453 84	1.5 1.4	1.2 1.2	1.2 1.2	3.1 2.9	3.1 2.9	1.1 1.4
Indiana	431	387	357	29	28		1.1	1.1	1.1	2.3		
IowaKansas	488	393	328	74	73		1.3	1.1	1.1	2.7		1.3
Kentucky	809	670	653	129	128		1.5	1.4	1.4	2.6		
Louisiana	1,489	497	481	977	977		2.3	1.3	1.4	3.6	3.6	•
Maine	165	158	157	7	7	1	1.2	1.2	1.2	•	•	•
Maryland	1,409	597	516	770	769		1.9	1.3	1.3	3.2		
Massachusetts	1,088	811	668	222	191		1.3	1.2		2.7		
Michigan	2,143	1,320 634	1,210	781 123	779 119		1.6 1.2	1.3 1.1	1.3 1.1	3.3 2.6		
Minnesota	822 874	299	562 291	566	565		2.1	1.3		3.0		
Mississippi Missouri	1,046	712	674	317	317		1.4	1.1	1.1	2.9		
Montana	126	110	105	-	-	7	1.1	1.2				
Nebraska	316	262	226	43	43		1.3	1.2		3.1	3.2	1.1
Nevada	332	256	157	53	49	95	1.1	1.0	1.0	2.1	2.0	0.9
New Hampshire	159	152	137	4	2	4	1.1	1.1	1.1	•	•	•
New Jersey	1,865	1,077	745	686	654		1.6 1.1	1.3 1.1	1.2 1.1	3.3	3.5	1.4 1.1
New Mexico	297 3,740	249 2,152	94 1.385	13 1,411	12 1,309		1.1	1.1		2.7	2.8	
New York North Carolina	2,272	1,204	1,048	985	983		1.9	1.4		3.5		
North Dakota	86	73	70	2	2		1.1	1.1		•		
Ohio	2,302	1,551	1,501	728	722		1.5	1.2		3.2	3.2	1.0
Oklahoma	664	450	402	132	132	44	1.3	1.1	1.2	2.9	2.9	0.9
Oregon	432	379	312	21	19		1.0	0.9		2.2		0.8
Pennsylvania	2,146	1,466		639	619		1.5	1.2		3.2		
Rhode Island	189	148	96	25	25	35	1.5	1.4	1.3	2.3	2.5	1.6
South Carolina	1,046	435		602	602		1.9	1.2		3.2	3.2	0.7
South Dakota	114	95		511	511	· 6 31	1.1 1.7	1.1 1.3		3.1	3.1	0.8
Tennessee	1,327 4,804	805 3,491	1,563	1,174	1,161		1.7	1.1		2.9		
Utah	462	442		ί, ί, 4	1,101	79	1.0	1.0				1.2
Vermont	72	72			7	. ,,	1.1	1.2		•		
Virginia	1,589	853		684	680	91		1.2		3.1	3.1	
Washington	818	654	529	60	59	117	1.0	1.0	1.0	1.8	1.8	1.0
West Virginia	291	271	269	19				1.4		•		•
Wisconsin	870	604		234				1.0		3.6	3.€	1.2
Wyoming	70	63	55	2	2	! 8	1.1	1.1	1.1	•	•	
Puerto Rico	739	662		77				1.3		1.7		<u> </u>
Virgin Islands	29	6	-	21						1.7	,	•
Guam	33	-	•	-		. 1						
American Samoa	9	-		-					·		·	
Northern Marianas	7	-		-				-				

^{*} Figure does not meet standards of reliability or precision; based on fewer than 20 births in the numerator.

- Quantity zero.

- Data not available.

Includes races other than white and black and origin not stated.

Includes all persons of Hispanic origin of any race.

Excludes data for the territories.



Table 48. Live births with selected abnormal conditions of the newborn and rates by age of mother, by race of mother: United States, 2001

[Rates are number of live births with specified abnormal condition per 1,000 live births in specified group]

Abnormal condition and	All	Abnormal	Age of mother							
race of mother	births 1	condition reported	All ages	Under 20 years	20-24 years	25-29 years	30-34 years	35-39 years	40-54 years	Not stated ²
All races ³										
Anemia	4,025,933	4,043	1.0	1.0	1.0	1.0	1.0	1.2	1.2	38,327
Birth injury 4	3,635,703	10,119	2.8	3.0	2.8	2.9	2.8	2.6	2.4	42,079
Fetal alcohol syndrome 5	3,956,861	136	0.0	*	0.0	0.0	0.0	•	•	39,443
Hyaline membrane disease/RDS	4,025,933	23,764	6.0	6.6	6.0	5.8	5.6	6.2	6.8	38.327
Meconium aspiration syndrome	4,025,933	6,333	1.6	1.8	1.6	1.5	1.5	1.6	1.9	38,327
Assisted ventilation less than 30 minutes 6	3,906,315	84,877	22.0	22.4	21.0	21.7	22.4	23.2	24.4	46,729
Assisted ventilation 30 minutes or longer 6	3,906,315	35,937	9.3	10.7	9.3	8.7	8.8	10.1	11.7	46,729
Seizures	4,025,933	1,940	0.5	0.6	0.5	0.5	0.4	0.5	0.5	38,327
White										
Anemia	3,177,626	2.976	0.9	1.0	0.9	0.9	1.0	1.1	1.2	30.653
Birth injury 4	2.843.151	8,163	2.9	3.1	2.9	3.0	2.9	2.6	2.5	33.933
Fetal alcohol syndrome 5	3,118,243	84	0.0	•	*	0.0	0.0	2.0	2.0	31,707
Hyaline membrane disease/RDS	3,177,626	19.156	6.1	6.8	6.1	6.0	5.8	6.2	6.9	30.653
Meconium aspiration syndrome	3,177,626	4,549	1.4	1.6	1.5	1.4	1.3	1.4	1.6	30,653
Assisted ventilation less than 30 minutes 6	3,110,079	68,273	22.2	22.5	21.0	22.0	22.7	23.5	25.0	37,350
Assisted ventilation 30 minutes or longer 6	3,110,079	27,709	9.0	10.3	8.8	8.4	8.7	9.8	11.7	37,350
Seizures	3,177,626	1,547	0.5	0.6	0.5	0.5	0.4	0.5	0.6	30,653
Black										
Anemia	606,156	818	1.4	1.2	1.2	1.4	1.4	2.0		4.315
Birth injury ⁴	564,033	1.004	1.8	2.1	1.7	1.8	1.7	2.0		4,659
Fetal alcohol syndrome 5	599,589	39	0.1	*	1.7	1.0	';'	2.0	*	4,059
Hyaline membrane disease/RDS	606,156	3,702	6.2	6.3	6.0	5.9	5.8	7.6	6.7	4,353 4,315
Meconium aspiration syndrome	606,156	1,427	2.4	2.1	2.1	2.5	2.5	7.6 3.1	3.9	4,315
Assisted ventilation less than 30 minutes 6	568,635	12.057	21.4	21.4	20.7	20.8	23.0	23.2	21.4	5,272
Assisted ventilation 30 minutes or longer 6	568,635	6,633	11.8	11.7	11.2	11.4	12.0	14.2	14.9	5,272
Seizures	606,156	299	0.5	0.6	0.5	0.5	0.4	0.4	14.5	4,315

Figure does not meet standards of reliability or precision; based on fewer than 20 births in the numerator.
 O.0 Quantity more than zero but less than 0.05.

 Total number of births to residents of areas reporting specified abnormal condition.

 No response reported for the abnormal conditions item.

Includes races other than white and black.

 Nebraska and Texas do not report this condition.

 Wisconsin does not report this condition.

New York City does not report this condition.

NOTE: Race and Hispanic origin are reported separately on birth certificates. In this table all women (including Hispanic women) are classified only according to their race; see Technical notes.



Table 49. Live births with selected congenital anomalies and rates by age of mother, by race of mother: Total of 49 reporting States and the District of Columbia, 2001

[Rates are number of live births with specified congenital anomaly per 100,000 live births in specified group]

	• "	Congenital			P	age of moth	er			- Not
Congenital anomaly and race of mother	All births ¹	anomaly reported	All ages	Under 20 years	20-24 years	25-29 years	30-34 years	35-39 years	40-54 years	stated 2
All races ³										
Ananconhaius	3,998,805	392	9.9	9.6	10.6	9.7	9.8	8.8	•	36,650
Anencephalus Spina bifida/Meningocele	3,998,805	790	19.9	24.2	23.0	19.4	18.9	14.2	•	36,650
Hydrocephalus	3.998.805	892	22.5	28.7	25.8	21.9	18.5	19.6	•	36.650
	3.998.805	222	5.6	6.1	6.2	6.2	4.7	4.5	•	36.650
Microcephalus Other central nervous system anomalies	3,998,805	981	24.8	26.0	27.4	21.0	24.1	24.8	38.5	36,650
,								450.0	040.5	00.05
Heart malformations	3,998,805	4,852	122.5	112.6 137.9	109.8 142.9	114.6 130.6	125.2 134.5	153.0 156.6	218.5 182.1	36,650 36,650
Other circulatory/respiratory anomalies	3,998,805	5,533	139.6	137.9	142.9	130.6	134.5	130.0	102.1	30,030
Rectal atresia/stenosis	3,998,805	355	9.0	10.3	8.5	9.0	8.3	8.1	•	36,650
Tracheo-esophageal fistula/Esophageal atresia	3,998,805	474	12.0	10.8	9.8	11.9	14.8	10.8	•	36,650
Omphalocele/Gastroschisis	3,998,805	1,258	31.8	82.8	42.2	21.6	15.7	17.8	•	36,650
Other gastrointestinal anomalies	3,998,805	1,357	34.2	37.0	34.5	30.0	33.0	36.9	64.5	36,650
-	0.000.00=	0.50	00.4	00.0	05.0	07.0	90.5	87.1	96.7	36,650
Malformed genitalia	3,998,805	3,504	88.4	92.0	85.9	87.3			90.7	36,650
Renal agenesis	3,998,805	586	14.8	15.5	15.0	16.0	14.4	11.9	100.4	
Other urogenital anomalies	3,998,805	4,072	102.8	87.0	99.9	104.3	102.0	115.2	139.4	36,650
Cleft lip/palate	3.998.805	3.192	80.6	87.0	87.8	78.6	74.0	74.5	87.4	36,650
Polydactyly/Syndactyly/Adactyly	3,998,805	3,263	82.4	106.8	102.6	74.0	67.2	66.6	67.6	36,650
Clubfoot	3.998.805	2,321	58.6	61.5	65.4	57.9	52.2	52.4	71.8	36,650
Diaphragmatic hernia	3.998.805	452	11.4	11.2	11.3	10.3	12.9	9.9	•	36,650
Other musculoskeletal/integumental anomalies	3,998,805	8.969		264.2	236.5	221.8	207.4	216.3	224.7	36,650
Down's syndrome	3,998,805	1,803	45.5	22.9	23.1	27.0	40.6	106.4	351.6	36,650
Other chromosomal anomalies	3,998,805	1,436	36.2	25.1	31.3	27.8	32.6	59.4	158.1	36,65
White										
A a a a a a a b a b a a	0.154.016	314	10.0	9.8	10.7	10.5	9.3	9.1	•	28.755
Anencephalus	3,154,816	637	20.4	25.6	22.4	20.7	20.0	13.8		28.75
Spina bifida/Meningocele	3,154,816			30.3	26.3	21.9	18.4	17.4		28,75
Hydrocephalus	3,154,816	699		30.3	6.1	5.5	3.5	17.4		28,75
Microcephalus	3,154,816	158		00.4				23.2	37.4	28,75
Other central nervous system anomalies	3,154,816	782	25.0	28.4	27.4	20.7	25.6	23.2	37.4	20,73
Heart malformations	3,154,816	3,805	121.7	113.7	109.8	112.8	122.4	151.4	223.1	28,75
Other circulatory/respiratory anomalies	3,154,816	4,441	142.1	141.2	149.7	131.7	135.5	154.4	188.3	28,75
Daniel di administratione di a	0.154.016	299	9.6	11,1	9.3	10.3	8.5	8.3		28,75
Rectal atresia/stenosis	3,154,816			12.0		12.2	6.5 15.5	12.1		28,75
Tracheo-esophageal fistula/Esophageal atresia	3,154,816	404	12.9		11.3					28,75
Omphalocele/Gastroschisis	3,154,816	987	31.6	91.6	43.8	20.4	15.2	17.6	05.0	
Other gastrointestinal anomalies	3,154,816	1,048	33.5	35.4	35.0	27.7	32.9	36.7	65.8	28,75
Malformed genitalia	3,154,816	3,007	96.2	99.5	95.4	94.8	97.1	95.1	101.9	28,75
Renal agenesis	3,154,816	483		17.4	15.8	17.1	15.0	11.0	•	28,75
Other urogenital anomalies	3,154,816	3,354		86.9	107.5	106.9	105.4	121.0	147.0	28,75
Olafe Parka	0.454.040	0.745	06.0	100.0	06.2	83.4	79.7	77.2	90.3	28,75
Cleft lip/palate	3,154,816	2,715		100.8	96.3			53.8	55.5	26,75 28.75
Polydactyly/Syndactyly/Adactyly	3,154,816	1,828		66.7	67.8	52.3	. 55.0			
Clubfoot	3,154,816	1,980		70.1	70.6	62.3	56.8	54.9	78.7	28,75
Diaphragmatic hernia	3,154,816	359		12.6	11.7	10.3	12.5	9.6	404.4	28,75
Other musculoskeletal/integumental anomalies	3,154,816	5,938		217.0	198.8	188.5	175.3	183.1	184.4	28,75
Down's syndrome	3,154,816	1,580		24.0	25.8	30.0	44.4	114.7	385.6	28,75
Other chromosomal anomalies	3,154,816	1,150	36.8	24.3	30.9	27.9	34.5	58.7	161.2	28,75

See footnotes at end of table.



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Table 49. Live births with selected congenital anomalies and rates by age of mother, by race of mother: Total of 49 reporting States and the District of Columbia, 2001 -Con.

[Rates are number of live births with specified congenital anomaly per 100,000 live births in specified group]

Congenital anomaly and	All	Congenital				Age of mother						
race of mother	All births ¹	anomaly reported	All ages	Under 20 years	20-24 years	25-29 years	30-34 years	35-39 years	40-54 years	Not stated ²		
Black												
Anencephalus	605,645	57	9.5	• '	10.6		•		•	4,255		
Spina bifida/Meningocele	605,645	128	21.3	23.8	25.3	14.7	•	•	•	4,255		
Hydrocephalus	605,645	151	25.1	26.4	23.3	23.5	23.4	•	•	4.255		
Microcephalus	605,645	42	7.0	•	•	•	•	•	•	4,255		
Other central nervous system anomalies	605,645	123	20.5	•	22.8	17.6	•	•	•	4,255		
Heart malformations	605,645	721	119.9	93.4	107.2	118.2	141.7	176.9	201.9	4,255		
Other circulatory/respiratory anomalies	605,645	731	121.6	111.0	106.7	123.3	134.3	174.8	•	4,255		
Rectal atresia/stenosis	605,645	37	6.2	•	•	•	•			4,255		
Tracheo-esophageal fistula/Esophageal atresia	605,645	41	6.8	•	•	•	•	•	•	4,255		
Omphalocele/Gastroschisis	605,645	222	36.9	57.3	38.4	30.1	26.6	•	•	4,255		
Other gastrointestinal anomalies	605,645	216	35.9	35.2	30.8	40.4	37.3	•	•	4,255		
Malformed genitalia	605,645	348	57.9	74.0	55.1	49.9	54.4	55.5		4,255		
Renal agenesis	605,645	69	11.5	•	10.1	19.0	•	•	•	4,255		
Other urogenital anomalies	605,645	399	66.3	67.8	55.6	72.7	69.3	72.0	•	4,255		
Cleft lip/palate	605,645	266	44.2	41.4	46.0	42.6	37.3	59.6		4,255		
Polydactyly/Syndactyly/Adactyly	605,645	1,324	220.2	221.1	245.3	220.9	194.0	178.9	•	4,255		
Clubfoot	605,645	256	42.6	40.5	47.0	40.4	34.1	49.4	•	4,255		
Diaphragmatic hernia	605,645	66	11.0	•	*	•	•	*	•	4,255		
Other musculoskeletal/integumental anomalies	605,645	2,248	373.8	352.3	348.4	386.7	409.3	407.2	438.9	4,255		
Down's syndrome	605,645	151	25.1	18.5	12.1	•	27.7	74.0	237.0	4,255		
Other chromosomal anomalies	605,645	170	28.3	21.1	26.3	22.0	24.5	59.6		4,255		

^{*} Figure does not meet standards of reliability or precision; based on fewer than 20 births in the numerator.

1 Total number of births to residents of areas reporting specified congenital anomaly.

2 No response reported for the congenital anomalies item.

3 Includes races other than white and black.



NOTES: Excludes data for New Mexico, which did not report congenital anomalies. Race and Hispanic origin are reported separately on birth certificates. In this table all women (Including Hispanic women) are classified only according to their race; see Technical notes.

Table 50. Live births by plurality of birth and ratios, by age and race and Hispanic origin of mother: United States, 2001

						Age of m	other				
Plurality and race	All	Undor	1	5-19 years						_	
and Hispanic origin of mother	ages	Under 15 years	Total	15-17 years	18-19 years	20-24 years	25-29 years	30-34 years	35-39 years	40-44 years	45-54 years
						Number			_		
All live births											
All races 1	4,025,933	7,781	445,944	145,324	300,620	1,021,627	1,058,265	942,697	451,723		5,083
White, total		4,095 1,581	318,563 190,161	99,192 52,712	219,371 137,449	779,529 523,027	850,343 622,361	777,294 625,435	368,816 300,007	74,856 60,614	4,130 3,392
Black, total	606,156	3,455	110,843	40,842	70,001	199,221	137,400 133,491	94,660	49,065 47,494	11,001 10,691	51° 48°
Black, non-Hispanictispanic ²	589,917 851,851	3,401 2,555	108,252 130,007	39,907 47,124	68,345 82,883	194,391 258,431	227,910	91,710 150,352			688
ive births in single deliveries											
All races 1	3,897,216	7,697	438,998	143,391	295,607	998,302 763,468	1,026,303	904,124 744,657	429,710 350,160	88,022 70,747	4,060 3,209
White, total		4,046 1,557	314,271 187,451	98,015 52,040	216,256 135,411	511,521	825,125 602,112	597,031	283,631	56,947	2,552
Black, total	585,189	3,426	108,412	40,134	68,278	192,702	132,056	90,714	46,809 45,313	10,600	470 448
Black, non-Hispanic	569,412 833,884	3,372 2,530	105,870 128,391	39,209 46,613	66,661 81,778	187,977 253,841	128,277 222,956	87,859 146,271	45,313 65,717	10,296 13,556	622
ive births in twin deliveries											
All races 1	121,246	81	6,849	1,917	4,932 3,064	22,752 15,627	30,344 23,759	35,581 29,944	20,265 17,076	4,462 3,822	912 813
White, total	95,315 77,882	46 21	4,228 2,689	1,164 669	2,020	11,173	18,974	25,936	14,943	3,402	74
Black, total	20,414	29	2,404	705	1,699	6,395	5,221	3,784	2,161	379	4
Black, non-Hispaniclispanic ²	19,974 17,257	29 25	2,355 1,573	695 501	1,660 1,072	6,290 4,489	5,094 4,774	3,702 3,861	2,092 2,092	373 386	39 57
ive births in higher order multiple deliveries ³											
All races 1	7,471 6.628	3 3	97 64	16 13	81 51	573 434	1,618 1,459	2,992 2,693	1,748 1,580	329 287	11°
White, non-Hispanic	5,894	3	21	3	18	333	1,275	2,468	1,433	265	9
Black, total	553	•	27	3 3	24	124	123 120	162 149	95 89	22 22	
Black, non-Hispanic	531 710	-	27 43	10	· 33	124 101	180	220	143	14	
				_	Ratio p	er 1,000 live	births	_			
All multiple births											
All races 1	32.0	10.8	15.6	13.3	16.7	22.8	30.2	40.9	48.7	51.6	
White, total	32.1 36.0	12.0 15.2	13.5 14.3	11.9 12.7	14.2 14.8	20.6 22.0	29.7 32.5	42.0 45.4	50.6 54.6	54.9 60.5	
Black, total	34.6	8.4	21.9	17.3	24.6	32.7	38.9	41.7	46.0	36.5	80.
Black, non-HispanicHispanic ²	34.8 21.1	8.5 9.8	22.0 12.4	17.5 10.8	24.6 13.3	33.0 17.8	39.1 21.7	42.0 27.1	45.9 32.9	36.9 28.7	
Twin births											
All races 1	30.1	10.4	15.4	13.2	16.4	22.3	28.7	37.7	44.9	48.1	
White, total	30.0 33.5		13.3 14.1	11.7 12.7	14.0 14.7	20.0 21.4	27.9 30.5	38.5 41.5	46.3 49.8		
Black, total	33.7	8.4	21.7	17.3	24.3	32.1	38.0	40.0	44.0	34.5	80.
Black, non-Hispanic	33.9 20.3		21.8 12.1	17.4 10.6	24.3 12.9	32.4 17.4	38.2 20.9	40.4 25.7	44.0 30.8		
•			_		Ratio pe	er 100,000 liv	e births				
Higher order multiple births ³											
All races 1	185.6		21.8	*	26.9	56.1	152.9	317.4	387.0		
White, total White, non-Hispanic	208.6 253.3		20.1 11.0	:	23.2	55.7 63.7	171.6 204.9	346.5 394.6	428.4 477.7		
Black, total	255.5 91.2		24.4	•	34.3	62.2	89.5	171.1	193.6	200.0	1
Black, non-Hispanic	90.0		24.9		35.1	63.8	89.9	162.5	187.4		}
Hispanic ²	83.3	•	33.1	•	39.8	39.1	79.0	146.3	210.4		



Quantity zero.
 Figure does not meet standards of reliability or precision; based on fewer than 20 births in the numerator.
 Includes races other than white and black and origin not stated.
 Includes all persons of Hispanic origin of any race.
 Births in greater than twin deliveries.

Technical Notes

Source of data

Data shown in this report for 2001 are based on 100 percent of the birth certificates in all States and the District of Columbia. The data are provided to the National Center for Health Statistics (NCHS) through the Vital Statistics Cooperative Program (VSCP). In 1984 and earlier years, the VSCP included varying numbers of States that provided data based on 100 percent of their birth certificates. Data for States not in the VSCP were based on a 50-percent sample of birth certificates filed in those States. Information on the percent of records with missing information for maternal and infant characteristics included in this report is shown by State in table I. Data are not shown for the variables race, age, and marital status of mother. Missing data are imputed in these cases; see separate sections in the Technical Notes for more information.

Age of mother

Age of mother is computed in most cases from the mother's and infant's dates of birth as reported on the birth certificate. The mother's age is directly reported by five States (Kentucky, Nevada, North Dakota, Virginia, and Wyoming) and American Samoa. From 1964 to 1996, mother's age was edited for ages 10-49 years. Births reported to occur to mothers younger than age 10 or older than age 49 years had age imputed according to the age of mother from the previous record with the same race and total birth order (total of live births and fetal deaths). Beginning in 1997, age of mother is imputed for ages 9 years or under and 55 years and over. A review and verification of unedited birth data for 1996 showed that the vast majority of births reported as occurring to women aged 50 years and over were to women aged 50-54 years. The numbers of births to women aged 50-54 years are too small for computing age-specific birth rates. These births have been included with births to women aged 45-49 years for computing birth rates.

In 2001 age of mother was not reported on 0.01 percent of the records; for these records age of mother was imputed according to the last record with the same race and total birth order.

Race and Hispanic origin

Race and Hispanic origin are reported separately on the birth certificate. Beginning with the 1989 data year, NCHS started tabulating its birth data primarily by race of the mother. In 1988 and prior years, births were tabulated by the race of the child, which was determined from the race of the parents as entered on the birth certificate.

Trend data by race shown in this report are by race of mother for all years beginning with the 1980 data year. In order to facilitate continuity and analysis of the data, trend tables showing data for years prior to 1980 show data for both race of mother and race of child for 1980. This makes it possible to distinguish the effects of this change from real changes in the data. The text discussions of data by race are based on tabulations by race of mother. Text references to white births and white mothers or black births and black mothers are used interchangeably for ease in writing.

The factors influencing the decision to tabulate births by race of re rhave been discussed in detail elsewhere (131). They include the 1989 revision of the birth certificate, which includes many more health questions which are directly associated with the mother. In these instances, it is more appropriate to tabulate births by the mother's race. A second factor has been the increasing incidence of interracial parentage. In 2001, 5.3 percent of births were to parents of different races compared with just 1.9 percent for 1980. A third factor influencing the decision to tabulate births by race of mother is the large proportion of births with race of father not stated, 13 percent in 2001. The high proportion of records with the father's race not reported reflects the increase in the proportion of births to unmarried women; in many such cases, no information is reported on the father. These births are already assigned the race of the mother because there is no alternative. Tabulating all births by race of mother, therefore, provides for a more uniform approach, rather than a necessarily arbitrary combination of parental races.

Race of mother is reported by all registration areas in eight categories: white, black, American Indian, Chinese, Japanese, Hawaiian, Filipino, and "other" Asian or Pacific Islander (API). In addition, 11 States (California, Hawaii, Illinois, Minnesota, Missouri, New Jersey, New York, Texas, Virginia, Washington, and West Virginia) report data on additional API subgroups that would otherwise be included in the "other" API category (Vietnamese, Asian Indian, Korean, Samoan, Guamanian, and remaining API). A report on births in 1992 to women in these API subgroups has been published (132).

In 2001 race of mother was not reported for 0.4 percent of births. In these cases, if the race of the father was known, the race of the father was assigned to the mother. When information was not available for either parent, the race of the mother was imputed according to the specific race of the mother on the preceding record with a known race of mother. This was necessary for just 0.3 percent of births in 2001.

Hispanic origin and race are reported independently on the birth certificate, as noted previously. Data for Hispanic subgroups are shown in most cases for five groups: Mexican, Puerto Rican, Cuban, Central and South American, and other and unknown Hispanic. In tabulations of birth data by race only, data for persons of Hispanic origin are included in the data for each race group according to the mother's reported race. In tabulations of birth data by race and Hispanic origin, data for persons of Hispanic origin are not further classified by race because the vast majority of births to Hispanic women are reported as white. In these tabulations, data for non-Hispanic persons are classified according to the race of the mother, because there are substantial differences in fertility and maternal and infant health between Hispanic and non-Hispanic white women.

Items asking for the Hispanic origin of the mother and the father have been included on the birth certificates of all States and the District of Columbia, the Virgin Islands, and Guam since 1993 (133). Puerto Rico, American Samoa, and the Northern Marianas do not collect this information. The percent of records for which Hispanic origin of the parents was not reported in 2001 is shown by State in table I.

Marital status

National estimates of births to unmarried women are based on two methods of determining marital status. For 1994 through 1996, birth certificates in 45 States and the District of Columbia included a question about the mother's marital status. Beginning in 1997, the marital status of women giving birth in California and Nevada is determined by a direct question in the birth registration process.

Beginning June 15, 1998, Connecticut discontinued inferring the mother's marital status and added a direct question on mother's marital status to the State's birth certificate.

In the two States (Michigan and New York) which use inferential procedures to compile birth statistics by marital status in 2001, a birth is inferred as nonmarital if any of these factors, listed in priority-of-use order, is present: a paternity acknowledgment was received or the father's name is missing. In recent years, a number of States have extended their efforts to identify the fathers when the parents are not married in order to enforce child support obligations. The presence of a paternity acknowledgment therefore is the most reliable indicator that the birth is nonmarital in the States not reporting this information directly; this is now the key indicator in the nonreporting States. Details of the changes in reporting procedures are described in previous reports (31, 134).

The mother's marital status was not reported in 2001 on 0.03 percent of the birth records in the 48 States and the District of Columbia where this information is obtained by a direct question. Marital status was imputed as "married" for these records.

Tobacco use

Beginning in 2001, data on whether or not the mother smoked during pregnancy is available for all States and the District of Columbia, except for California. These areas comprised 87 percent of U.S. births in 2001. Data on the number of cigarettes smoked daily were available in a comparable format for 46 States, the District of Columbia, and New York City. Indiana and New York State (except for New York City) reported information on number of cigarettes smoked in a format that was inconsistent with the NCHS standard (see figure I). South Dakota did not report this information. The areas reporting on the number of cigarettes smoked comprised 81 percent of U.S. births in 2001.

Gestation

The primary measure used to determine the gestational age of the newborn is the interval between the first day of the mother's last normal menstrual period (LMP) and the date of birth. It is subject to error for several reasons, including imperfect maternal recall or misidentification of the LMP because of postconception bleeding, delayed ovulation, or intervening early miscarriage. These data are edited for LMP-based gestational ages that are clearly inconsistent with the infant's plurality and birthweight (see below), but reporting problems for this item persist and may occur more frequently among some subpopulations and among births with shorter gestations (135, 136).

The U.S. Standard Certificate of Live Birth includes an item, "clinical estimate of gestation," that was compared with length of gestation computed from the date the last normal menstrual period (LMP) began when the latter appeared to be inconsistent with birthweight. This was done for normal weight births of apparently short gestations and very low birthweight births reported to be full term. The clinical estimate was also used if the LMP date was not reported. The period of gestation for 4.9 percent of the births in 2001 was based on the clinical estimate of gestation. For 97 percent of these records, the clinical estimate was used because the LMP date was not reported. e remaining 3 percent, the clinical estimate was used because it was compatible with the reported birthweight, whereas the LMPbased gestation was not. In cases where the reported birthweight was inconsistent with both the LMP-computed gestation and the clinical estimate of gestation, the LMP-computed gestation was used and birthweight was reclassified as "not stated." This was necessary for 283 births or 0.007 percent of all birth records in 2001. The levels of the adjustments in 2001 data were similar to those for 2000 and earlier years (122).

Birthweight

Birthweight is reported in some areas in pounds and ounces rather than in grams. However, the metric system has been used in tabulating and presenting the statistics to facilitate comparison with data published by other groups. Equivalents of the gram weights in terms of pounds and ounces are as follows:

Less than 500 grams = 1 lb 1 oz or less 500-999 grams = 1 lb 2 oz-2 lb 3 oz1,000-1,499 grams = 2 lb 4 oz - 3 lb 4 oz1,500-1,999 grams = 3 lb 5 oz-4 lb 6 oz2,000-2,499 grams = 4 lb 7 oz-5 lb 8 oz2.500-2.999 grams = 5 lb 9 oz-6 lb 9 oz 3,000-3,499 grams = 6 lb 10 oz-7 lb 11 oz3,500-3,999 grams = 7 lb 12 oz - 8 lb 13 oz4,000-4,499 grams = 8 lb 14 oz - 9 lb 14 oz4,500-4,999 grams = 9 lb 15 oz-11 lb 0 oz5,000 grams or more = 11 lb 1 oz or more

Method of delivery

Several rates are computed for method of delivery. The overall cesarean section rate or total cesarean rate is computed as the percent of all births that were delivered by cesarean section. The primary cesarean rate is a measure which relates the number of women having a first cesarean delivery to all women giving birth who have never had a cesarean delivery. The denominator for this rate includes all births less those with method of delivery classified as repeat cesarean, vaginal birth after previous cesarean, or method not stated. The rate for vaginal birth after previous cesarean (VBAC) delivery is computed by relating all VBAC deliveries to the sum of VBAC and repeat cesarean deliveries, that is, to women with a previous cesarean section.

Computations of percents, percent distributions, and medians

Births for which a particular characteristic is unknown were subtracted from the figures for total births that were used as denominators before percents, percent distributions, and medians were computed. The percent of records with missing information for each item is shown by State in table I. The median number of prenatal visits also excludes births to mothers who had no prenatal care. Computations of the median years of school completed and the median number of prenatal visits were based on ungrouped data. An asterisk is shown in place of any derived statistic based on fewer than 20 births in the numerator or denominator.

Table I. Percent of birth records on which specified items were not stated: United States and each State and territory, 2001

·	All	Place	Attendant	Mother's	Father's	Father's	Hispanic origin		
Area	births	of birth	at birth	birthplace	age	race	Mother	Fathe	
Total of reporting areas ¹	4,025,933	0.0	0.0	0.3	13.5	14.1	0.6	14.1	
Nabama	60,454	0.0	0.0	0.1	21.4	21.5	0.1	21.4	
Naska	10,003	0.2	0.1	0.7	12.2	13.8	8.7	17.3	
rizona	85,597	0.0	0.0	0.1	18.3	19.5	1.3	19.9	
Arkansas	37,010	0.0	0.0	0.4	19.7	21.0	0.4	20.3	
California	527,759	0.0	0.1	0.2	7.1	6.7	0.6	6.3	
`alarada	67,007	_	0.0	0.4	8.1	8.5	0.0	8.6	
Colorado	42,648	0.0	0.0	0.3	10.2	11.6	1.2	11.3	
Connecticut						30.4	0.1	29.6	
Delaware	10,749	_	-	0.1	29.7			39.1	
District of Columbia	7,625	-	_	0.1	39.2	47.4	0.6		
Florida	205,793	0.0	0.0	0.1	16.7	17.0	0.2	18.5	
Georgia	133,526	0.0	0.0	0.2	17.6	17.8	1.2	18.5	
ławaji	17,072	_	0.0	0.1	9.4	9.5	0.1	9.2	
daho	20,688	0.0	0.0	0.7	8.2	11.7	1.9	12.4	
llinois	184,064	0.0	0.0	0.1	13.4	15.2	0.0	15.1	
ndiana	86,459	0.0	0.0	0.1	12.6	12.6	0.4	12.9	
	•								
owa	37,619	_	0.0	0.0	12.6	14.3	0.3	14.0	
Kansas	38,869		0.1	0.1	10.4	11.2	1.1	11.9	
Centucky	54,658	0.0	0.1	0.0	19.6	22.2	0.0	22.4	
ouisiana	65,352	0.0	0.0	0.0	20.3	20.3	0.1	20.3	
Maine	13,759	_	_	_	8.6	12.4	0.4	10.4	
Maryland	73,218	0.0	0.0	0.4	11.5	12.7	0.4	10.7	
	81,077	0.0	0.0	0.4	7.0	7.4	0.4	6.7	
fassachusetts	,				14.2	16.4	1.4	17.3	
Aichigan	133,427	0.0	0.1	0.1					
Minnesota	67,562	0.0	0.0	0.2	9.4	13.5	0.7	13.3	
Mississippi	42,282	-	0.0	0.1	22.1	22.0	0.1	22.1	
Missouri	75,464	0.0	_	0.2	18.5	18.3	0.1	17.8	
Montana	10,970	_	0.2	0.0	9.8	11.0	2.9	13.6	
Nebraska	24,820	_	_		11.8	13.3	2.1	13.8	
Nevada	31,382	0.0	0.0	0.5	20.0	20.9	1.1	20.0	
New Hampshire	14,656	-	-	0.1	5.4	7.5	4.5	10.8	
vew riamponite	•			0.1					
New Jersey	115,795	0.0	0.0	0.1	7.9	9.5	0.3	8.3	
New Mexico	27,128	-	0.0	1.3	21.0	20.5	0.0	20.5	
New York	254,026	0.1	0.0	0.4	14.0	14.4	1.1	14.8	
North Carolina	118,185	-	0.0	0.0	15.7	15.8	0.1	16.1	
North Dakota	7,629	0.0	_	0.0	8.5	8.9	2.5	11.5	
Ohio	151 570	0.0	0.0	4.4	14.0	15.5	0.0	15.0	
Ohio	151,570	0.0	0.0	1.1	14.9	15.5	0.2		
Oklahoma	50,118	0.0	0.0	0.0	17.5	18.8	0.2	18.4	
Oregon	45,322	_	_	0.1	10.3	4.0	0.3	4.3	
Pennsylvania	143,495	0.0	0.0	0.9	5.0	5.4	0.7	4.2	
Rhode Island	12,713	-	_	0.5	13.4	13.9	9.9	20.5	
South Carolina	55,756	_	_	0.1	27.1	27.3	0.1	27.1	
South Dakota	10,483	_	_	0.0	13.1	13.2	0.1	13.4	
Fennessee	78,340	0.0	0.0	0.1	15.3	15.5	0.0	15.5	
Fexas	365,410	0.0	0.0	0.5	14.2	14.4	0.3	14.4	
Jtah	47,959	0.0 	0.0	0.5	8.4	10.0	0.5	9.4	
	•	_	_						
/ermont	6,366	_	_	0.1	7.6	13.6	3.0	15.9	
/irginia	98,884	_	0.0	0.1	16.6	18.5	0.2	16.7	
Vashington	79,570	0.0	0.1	0.5	10.6	13.1	1.7	13.3	
Vest Virginia	20,428	0.2	0.0	0.1	12.7	13.1	0.3	13.2	
Visconsin	69,072	0.0	0.0	0.1	29.5	29.6	0.0	29.6	
Wyoming	6,115	_	_	0.1	13.6	14.0	0.1	13.8	
Puerto Rico.	55,866	0.0	0.1	_	3.4	4.2			
Virgin Islands	1,669	_	0.1	-	19.4	21.0	3.1	24.7	
Guam	3,565	0.1	0.9	0.8	22.1	23.1	2.6	27.5	
American Samoa	1,655	_	0.2	5.1	28.3	30.3			
Commonwealth of the	•								
John 1011 110 01 110									

See footnotes at end of table.



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Table I. Percent of birth records on which specified items were not stated: United States and each State and territory, 2001—Con.

Area	Educational attainment of mother	Live-birth order	Length of gestation	Month prenatal care began	Number of prenatal visi
otal of reporting areas ¹	1.4	0.3	1.0	2.4	3.1
labama	0.2	0.0	0.1	0.3	0.3
laska	3.4	2.1	0.4	4.1	7.2
rizona	2.3	0.3	0.1	1.6	2.9
rkansas	0.7	0.2	0.2	1.8	2.4
alifomia	1.6	0.1	² 5.9	1.6	2.8
plarada	1.1	0.0		1.6	0.0
plorado		0.0	0.0	1.6	2.3
onnecticut	1.5	0.7	0.2	1.9	4.1
elaware	0.6	0.1	0.1	0.2	0.4
Strict of Columbia	7.0	1.1	0.3	14.3	9.6
orida	0.7	0.0	0.1	1.2	2.1
eorgia	1.2	0.4	0.1	4.4	3.9
ıwaii	0.8	0.0	0.7	2.5	2.5
aho	3.1	0.2	0.5	6.7	4.2
nois	1.1	0.1	0.2	2.5	2.7
liana	0.6	0.1	0.1	0.9	2.2
va	0.3	0.0	0.1	0.5	1.4
nsas	0.4	0.0	0.1	0.9	1.1
ntucky	0.3	0.0	0.1	1.2	1.5
uisiana	0.1	0.1	0.1	0.4	0.4
ine	0.9	0.4	0.1	0.5	0.7
aryland	1.4	0.2	0.4	2.3	3.4
ssachusetts	0.3	0.3	0.4	1.5	0.5
chigan	2.2	0.2	0.1	1.9	2.5
nnesota	2.3	0.5	0.5	4.0	4.8
ssissippi	0.3	0.1	0.1	0.6	1.1
ssouri	0.7	0.3	0.2	2.2	3.8
ontana	0.1	0.0	0.1	0.4	0.3
braska	0.1	0.0	0.0	0.4	0.4
vada	2.9	0.8	1.0	4.1	8.1
w Hampshire	1.3	0.2	0.2	2.1	1.9
w Jersey	2.9	0.1	0.1	3.9	3.9
w Mexico	2.9	1.4	0.2	5.1	5.1
w York	1.0	0.3	0.1	4.6	2.9
rth Carolina	0.2	0.0	0.0	0.6	0.6
rth Dakota	0.5	0.0	0.1	0.9	0.7
		0.0		0.5	
io	0.9	1.1	0.0	1.9	2.9
lahoma	0.3	0.7	0.1	1.9	0.7
egon	1.2	0.0	0.0	0.1	0.2
nnsylvania	2.7	0.5	0.4	5.0	6.4
ode fsland	2.4	1.1	0.2	2.6	3.0
uth Carolina	1.1	0.1	0.1	0.9	1.0
uth Dakota	0.3	U. I _	0.0	0.3	1.0 0.3
nnessee	0.3	0.1	0.0		
Xas		0.1 1.1		1.8	1.9
	2.0		0.9	3.2	6.7
.h.	1.6	0.3	0.1	2.2	2.8
mont	0.9	0.5	0.2	4.0	2.2
ginia	1.0	0.0	0.0	0.3	1.1
shington	6.1	1.4	0.8	8.2	9.7
st Virginia	0.6	0.0	0.1	3.4	2.0
sconsin	0.3	0.0	0.0	0.3	0.4
romina	0.3				
oming	0.3	-	0.1	0.4	0.6
erto Rico	0.3	0.0	0.1	0.3	0.1
gin Islands	1.7	1.3	0.6	0.1	2.0
am	1.6	1.5	0.2	1.7	2.6
nerican Samoa	***	-	•••	•••	•••
mmonwealth of the	0.0	^ -	• •		
rthem Marianas Islands	3.0	0.7	0.8	2.0	2.1

See footnotes at end of table.



Table I. Percent of birth records on which specified items were not stated: United States and each State and territory, 2001—Con.

Area	Birthweight	5-minute Apgar score	Medical risk factors	Tobacco use	Alcohol use	Weight gain
Total of reporting areas ¹	0.1	0.4	0.9	0.7	0.9	7.0
Alabama	0.1	0.3	0.0	0.1	0.1	3.6
laska	0.4	0.6	2.7	0.9	1.1	7.6
rizona ,	0.1	0.3	0.0	1.2	1.3	17.3
rkansas	0.1	3.3	0.1	0.7	0.8	7.7
alifornia	0.0		0.0			
olorado.	0.0	0.3	0.0	0.3	0.3	3.4
olorado	0.0	0.6	2.4	1.0	1.1	6.9
elaware	0.0	0.2	0.0	0.1	0.1	0.8
istrict of Columbia	0.0	1.0	-	0.0	0.0	15.1
lorida	0.1	0.2	0.0	0.1	0.1	5.8
eorgia	0.0	0.4	0.4	0.5	0.5	10.0
lawaii, . , . , . , . ,	0.1	0.5	0.4	0.1	0.1	14.4
Jaho	0.1	0.6	- 0.4	0.6	0.7	10.9
linois	0.1	0.3	0.0	0.2	0.1	4.3
diana	0.4	0.3	0.1	⁴0.2	0.2	2.8
wa	0.1	0.3	0.1	0.1	0.1	0.7
ansas	0.0	0.4	³ 0.2	0.2	0.2	0.2
entucky	0.2	0.4	4.6	2.7	3.2	8.0
ouisiana	0.0	0.3	0.1	0.1	0.1	5.6
laine	0.1	0.2	0.1	0.9	1.3	1.7
	0.0	0.5	0.0	0.2	0.2	4.5
laryland	0.0	0.4	0.5	0.3	0.2	0.8
lassachusetts	0.4	0.4	0.0	1.1	1.1	7.7
lichigan	0.1	0.3	8.2	8.1	8.2	17.9
linnesota	0.1	0.4	0.1	0.3	0.3	5.6
ississippi	0.0	0.2	0.1			
lissouri	0.1	0.5	0.1	0.4	0.4	3.1
Iontana	0.1	0.4	0.0	0.8	1.1	1.0
lebraska	0.0	0.1	0.0	0.0	0.0	1.6
levada	0.0	1.1	8.6	1.6	1.6	7.7
lew Hampshire	0.1	0.2	0.0	0.6	0.6	4.2
lew Jersey	0.1	0.3	0.8	0.7	0.8	5.8
lew Mexico	0.2	3,4	0.0	1.3	1.4	8.8
lew York	0.1	0.2	2.3	40.2	0.2	5.9
Iorth Carolina	0.0	0.3	0.0	0.2	0.2	2.3
Iorth Dakota	0.1	0.2	0.2	0.5	0.9	2.9
					0.2	2.0
hio	0.1	0.2	0.0	0.3	0.3	3.2
Oklahoma	0.1	1.1	1.4	0.8	0.9	1.7
regon	0.0	0.4	0.7	0.8	0.8	1.9
ennsylvania	0.1	0.4	0.1	0.9	1.0	11.1
hode Island	0.1	0.3	6.0	1.7	1.8	13.2
outh Carolina	0.0	0.2	0.0	0.1 50.4	0.1 50.0	1.6
outh Dakota	0.0	0.3	0.0	⁵0.1	50.2	1.1
ennessee	0.0	0.2	0.0 ⁶ 1.2	0.2	0.2 1.1	9.3
exas , . ,	0.1			1.1 0.7	0.7	12.6 4.1
tah	0.1	0.3	0.1	0.7		4.1
ermont	0.3	0.3	0.3	0.9	0.5	2.7
irginia , , , , , , , , , , , , , , , , , , ,	0.1	0.2	0.0	0.0	0.0	3.6
/ashington	0.3	0.6	12.7	2.5	9.7	23.8
/est Virginia	0.1	0.3	1.9	0.8	1.4	9.1
/isconsin	0.0	0.4	0.1	0.1	0.1	2.2
Vyoming	0.0	0.2	0.0	0.2	0.2	1.8
uerto Rico	0.0	0.1	0.0	0.0	0.0	0.1
irgin Islands	0.1	2.2	2.5	0.4	0.5	16.2
iuam	0.2	0.9	2.1	0.5	0.6	4.8
American Samoa	-	0.3	2.1	•		
Commonwealth of the	_					

See footnotes at end of table.



Table I. Percent of birth records on which specified items were not stated: United States and each State and territory, 2001—Con. [By place of residence]

Area	Obstetric procedures	Complications of labor and/or delivery	Method of delivery	Abnormal conditions of newborn	Congenital anomalies
Total of reporting areas ¹	0.5	0.6	0.5	1.0	0.9
Alabama	0.0	0.0	0.4	0.0	0.0
Naska	2.6	2.8	0.5	2.3	2.2
vizona	0.0	0.0	0.4	0.0	110.3
rkansas	0.1	0.1	0.3	0.1	0.1
alifomia	0.0	0.0	0.0	0.0	0.0
olorado	0.0	0.0	-	0.0	0.2
Connecticut	2.3	2.1	0.6	2.7	2.8
elaware	0.0	-	, 0.0	0.0	-
istrict of Columbia	<u> </u>	_	0.1	0.0	-
Torida	0.0	0.0	0.7	0.0	0.0
Georgia	0.0	0.0	0.5	0.0	0.0
lawaii	0.2	0.3	0.4	0.2	0.2
daho	0.3	0.4	0.5	0.6	0.7
linois	0.0	0.0	0.4	0.0	0.1
ndiana	0.0	0.1	0.5	0.1	0.1
wa	0.0	0.1	0.5	0.0	0.1
ansas	0.1	0.1	0.3	0.2	0.1
entucky	2.5	4.7	3.2	6.8	5.5
ouisiana	0.1	0.1	0.2	0.1	0.1
Maine	0.0	0.1	0.2	0.1	0.1
Manyland	0.0	0.0	0.2	0.0	0.0
Aassachusetts	0.5	0.5	0.6	0.6	0.9
fichigan	0.0	0.0	0.4	0.0	0.0
linnesota	6.4	8.1	2.6	9.2	9.2
fississippi	0.0	0.1	0.3	0.0	0.0
fissouri	0.1	0.1	0.6	0.1	0.1
Montana	0.0	0.0	0.3	0.0	0.0
lebraska	0.0	0.1	0.3	⁷ 0.0	0.0
levada	1.5	4.1	1.2	3.1	7.8
lew Hampshire	0.0	0.0	0.4	0.0	0.1
lew Jersey	0.1	0.6	0.6	4.3	2.1
New Mexico	0.0	0.0	0.5	0.0	
lew York	0.3	0.5	0.4	82.3	2.2
Iorth Carolina	0.0	0.0	0.5	0.0	0.0
North Dakota	0.2	0.1	1.8	0.2	0.0
Chio	0.0	0.0	0.6	0.0	0.0
Oklahoma	1.3	1.6	1.6	2.9	113.0
Oregon	0.0	0.0	0.5	0.0	0.0
Pennsylvania	0.0	0.0	0.0	0.1	0.0
Rhode Island	6.2	6.0	0.4	10.8	10.9
South Carolina	0.0	0.0	0.7	0.0	0.0
South Dakota	-	0.0	0.3	0.0	0.0
ennessee	0.0	0.0	0.5	0.0	0.0
exas	0.0	90.0	0.7	⁷ 0.0	0.1
Itah	0.0	0.0	0.0	0.1	0.1
fermont	0.3	0.3	0.1	0.3	0.3
rginia	0.0	0.0	0.3	0.2	0.0
Vashington	10.1	11.9	0.4	12.4	12.5
Vest Virginia	0.2	1.0	0.3	3.1	0.7
/isconsin	0.0	0.1	0.0	¹⁰ 0.1	0.7 0.1
Wyoming	-	-	0.0	-	0.0
Puerto Rico	0.1	0.1	0.0	0.0	0.1
firgin Islands	1.4	2.9	0.9	4.4	. 3.8
iliam	1.1	3.2	0.4	2.3	2.2
American Samoa		•••	•••		
Commonwealth of the					
lorthem Marianas Islands			1.6		

^{0.0} Quantity more than zero but less than 0.05.

⁻⁻⁻ Data not available.

⁻ Quantity zero.

¹Excludes data for Puerto Rico, Virgin Islands, Guam, American Samoa, and the Commonwealth of the Northern Marianas.

²California reports date last normal menses began but does not report clinical estimate of gestation. ³Kansas does not report Rh sensitization.

Indiana and New York State report tobacco use but do not report the average number of cigarettes smoked per day in standard categories; data for New York City are reported in standard categories.

⁵South Dakota and the Commonwealth of the Northern Marianas report tobacco and alcohol use but do not report the average number of cigarettes smoked per day or the average number of drinks per week.

⁶Texas does not report genital herpes and uterine bleeding. ⁷Nebraska and Texas do not report birth injury.

⁸New York City does not report assisted ventilation less than 30 minutes and assisted ventilation of 30 minutes or more.

¹⁰Wisconsin does not report fetal alcohol syndrome. does not report anesthetic complications and fetal distress.

of "Other central nervous system anomalies" may be overstated for Arizona and Oklahoma for 2001.

38a. MEDICAL RISK FACTORS FOR THIS PREGNANCY (Check all that apply)	40. COMPLICATIONS OF LABOR AND/OR DELIVERY (Check all that apply)	43. CONGENITAL ANOMALIES OF CHILD (Check all that apply)
Anemia (Hct. <30/Hgb. <10)	Feorile (> 100 °F. or 38 °C.)	Anencephalus
Hypertension, chronic	Precipitous labor (< 3 hours)	Heart malformations
infant 13 □ Renal disease 14 □ Rh sensitization 15 □ Uterine bleeding 16 □ None 00 □ Other 17 □	Anesthetic complications 14 □ Fetal distress 15 □ None 00 □ Other	Omphalocele/ Gastroschisis
(Specify) 38b. OTHER RISK FACTORS FOR THIS PREGNANCY	41. METHOD OF DELIVERY (Check all that apply) Vaginal	Renal agenesis
(Complete all items) Tobacco use during pregnancy	Vaginal birth after previous C-section 02 □ Primary C-section 03 □ Repeat C-section 04 □ Forceps 05 □ Vacuum 06 □	Cleft lip/palate
Weight gained during pregnancy lbs. 39. OBSTETRIC PROCEDURES (Check all that apply)	42. ABNORMAL CONDITIONS OF THE NEWBORN (Check all that apply) Anemia (Hct. <39/Hgb. < 13)	/Specify/19 Down's syndrome
Amniocentesis 01 □ Electronic fetal monitoring 02 □ Induction of labor 03 □ Stimulation of labor 04 □ Tocolysis 05 □ Ultrasound 06 □ None 00 □ Other 07 □	Birth injury	(Specify)21 None
(Specify)	(Specify)	

Figure I. Selected maternal and infant health items from the 1989 revision of the U.S. Standard Certificate of Live Birth

Population denominators

Birth and fertility rates for 2001 shown in tables 1, 3–6, 8, 9, 13, 14, A, and B are based on populations projected from the 1990 Census, estimated as of July 1, 2001. These populations are shown in tables II and III. The population estimates have been provided by the U.S. Bureau of the Census (7) and are based on the 1990 census counts by age, race, and sex, which were modified to be consistent with Office of Management and Budget racial categories and historical categories for birth data, and in the case of age, to reflect age as of the census reference date. The modification procedures are described in detail in a census report (137).

The U.S.- and State-level birth and fertility rates in this report are based on estimates projected from the 1990 census because detailed populations based on the 2000 census were not available when this report was prepared. As a result, rates are generally larger than would be the case if 2000-based estimates were used. The magnitude of the overestimate will vary by population subgroup; overestimates are likely greatest for those of Hispanic origin. A comparison of the estimates for the total population based on the 1990 and 2000 censuses show that the total 2001 population used in this report is 2.5 percent lower than the estimated population based on the 2000 census (138). A comparison of summary 2000 census results and the estimates for 2000 used in the 2000 report indicates that the total U.S. Hispanic population the 2000 report is 8 percent lower than the population based

on the 2000 census (5–7). The underestimate for Hispanic women 15–44 years of age is 9.5 percent (compared with an underestimate of 2 percent for all women 15–44 years of age). Therefore, the birth and fertility rates for Hispanic women presented here are overstated because the population base is too small. There may be similar, but less pronounced effects for other population groups. Comparison between rates for the current year and for 2000, which also uses population denominators based on the 1990 census, should be affected only marginally when more accurate denominators from the 2000 census are used. Comparisons with rates for the early 1990s will be more affected. Revised rates based on the 2000 census will be presented in a forthcoming report planned for early 2003.

Rates for Hispanic subgroups for 2001 are not shown because the special population estimates for these groups, based on the 1990 census, are not available.

Birth and fertility rates by State shown in table 10 are based on State-level population estimates projected from the 1990 census provided by the U.S. Bureau of the Census that are consistent with the U.S. populations (139). Rates by State shown in this report may differ from rates computed on the basis of other population estimates. Birth and fertility rates by month shown in table 15 are based on monthly population estimates also based on the 2001 estimates (from the 1990 census). Rates for unmarried women shown in tables 17 and 18 are based on distributions of the population by marital status as of March

Table II. Estimated total population by race, and estimated female population by age and race: United States, 2001 [Populations estimated as of July 1]

Age	All races	White	Black	American Indian	Asian or Pacific Islande
Total population	277,739,757	227,871,696	35,756,802	2,475,455	11,635,804
Female population					
15-44 years	60,139,584	47,937,842	8.723.292	591.092	2,887,358
I0–14 years	9,880,471	7,727,436	1,597,050	124,733	431,252
5–19 years	9,742,425	7,686,099	1,513,573	120,207	422,546
15–17 years	5,760,522	4,538,264	895,077	73,360	253,821
18-19 years	3,981,903	3,147,835	618,496	46,847	168,725
0-24 years	9,298,249	7,342,201	1,439,985	105,013	411,050
25–29 years	8,724,955	6,827,902	1,320,214	93,755	483,084
0-34 years	9,905,270	7,855,968	1,412,512	91,006	545,784
5–39 years	10,949,346	8,812,256	1,524,550	90,394	522,146
0-44 years	11,519,339	9,413,416	1,512,458	90,717	502,748
15–49 years	10,393,696	8,572,211	1,300,698	78,420	442,367

NOTE: These population counts are projected from the 1990 census; see Technical Notes.

SOURCE: U.S. Census Bureau, See reference 7.

Table III. Estimated total population by specified Hispanic origin and estimated female population by age and specified Hispanic origin and by race for women of non-Hispanic origin: United States, 2001

[Populations estimated as of July 1]

	Hispanic				Non-Hispanic			
Age	Total	Mexican	Puerto Rican	Cuban	Other Hispanic ¹	Total ²	White	Black
Total population	33,580,089					244,159,668	197,247,498	33,867,772
Female population	, .						,,	,,
15-44 years	7,915,469					52,224,115	40,737,072	8,272,507
10-14 years	1,485,159					8,395,312	6.381.537	1,510,992
15–19 years	1,404,972					8,337,453	6,409,702	1,435,133
15-17 years	827,199					4,933,323	3,788,153	848,462
18-19 years	577,773					3,404,130	2,621,549	586,671
20-24 years	1,389,655					7,908,594	6,073,152	1,364,829
25–29 years	1,303,247					7,421,708	5,637,565	1,249,912
30-34 years	1,321,283					8,583,987	6,656,246	1,335,639
35–39 years	1,320,324					9,629,022	7,614,051	1,444,897
40-44 years	1,175,988				• • •	10,343,351	8,346,356	1,442,097
45-49 years	940,263					9,453,433	7,718,844	1,244,594

^{- - -} Data not available

NOTE: These population counts are projected from the 1990 census; see Technical Notes.

SOURCE: U.S. Census Bureau. See reference 7.

2001 provided by the U.S. Bureau of the Census (30) which have been adjusted to July 2001 population levels (7) by the Division of Vital Statistics, NCHS (31,134). The 2001 population levels are consistent with the 1990 census. Birth and fertility rates for the Hispanic population, shown in tables 6, 8, 9, and 14, are based on estimates of the total Hispanic population as of July 1, 2001 (7).

Computation of rates

In computing birth rates by live-birth order, births with birth order not stated were distributed in the same proportion as births of known live-birth order. This procedure is done separately by race.

In computing birth and fertility rates for the Hispanic population, births with origin of mother not stated are included with non-Hispanic rather than being distributed. Thus, rates for the U.S. Hispanic

population are underestimates of the true rates to the extent that the births with origin of mother not stated (0.6 percent) were actually to Hispanic mothers (see table I). In computing the rates, the census-based populations with origin not stated are imputed. The effect on the rates is believed to be small.

Age of father—Information on age of father is often missing on birth certificates of children born to unmarried women (table I). In computing birth rates by age of father, births where age of father is not stated are distributed in the same proportions as births with known age within each 5-year-age classification of mother. This procedure is followed because, while father's age is missing on 13 percent of all birth certificates, the age is missing from more than a third of records where the mother is a teenager. This distribution procedure is done separately by race. The resulting distributions are summed to form a composite

¹Includes Central and South American and other and unknown Hispanic.

²Includes races other than white and black.

frequency distribution that is the basis for computing birth rates by age of father. This procedure avoids the distortion in rates that would result if the relationship between age of mother and age of father were disregarded.

Graphic presentation

Trend data shown in figures 2, 6, and 11 are plotted using a logarithmic scale. This approach is taken to facilitate comparison of the relative change in rates over time for each series of rates as well as the differentials among rates for different series. The trend lines in figure 2, for example, show that women aged 40–44 years experienced the most change of any group over the period, and also that they had the greatest increase in rates since 1985.

Random variation and significance testing for natality data

The number of births reported for an area is essentially a complete count, because more than 99 percent of all births are registered. Although this number is not subject to sampling error, it may be affected by nonsampling errors in the registration process such as mistakes in recording the mother's residence or age during the registration process.

When the number of births is used for analytic purposes (that is, the comparison of numbers, rates, and percents over time, for different areas, or between different groups), the number of events that *actually* occurred can be thought of as one outcome in a large series of possible results that *could have* occurred under the same (or similar) circumstances. When considered in this way, the number of births is subject to random variation and a probable range of values estimated from the actual figures, according to certain statistical assumptions.

The confidence interval is the range of values for the number of births, birth rates, or percent of births that you could expect in 95 out of 100 cases. The confidence limits are the end points of this range of values (the highest and lowest values). Confidence limits tell you how much the number of events or rates could vary under the same (or similar) circumstances.

Confidence limits for numbers, rates, and percents can be estimated from the actual number of vital events. Procedures differ for rates and percents and also differ depending on the number of births on which these statistics are based. Below are detailed procedures and examples for each type of case.

When the number of vital events is large, the distribution is assumed to follow a normal distribution (where the relative standard error is small). When the number of events is small and the probability of the event is small, the distribution is assumed to follow a Poisson probability distribution. Considerable caution should be observed in interpreting the occurrence of infrequent events.

95-percent confidence limits for numbers less than 100

When the number of births is less than 100 and the rate is small, the data are assumed to follow a Poisson probability distribution (140). Confidence limits are estimated using the following formulas:

Lower limit = B x L

er limit = B x U

where

B = number of births

L = value in table IV that corresponds to the number of events B U = value in table IV that corresponds to the number of events B

Example

Suppose that the number of first births to American Indian women 40–44 years of age was 47. The confidence limits for this number would be:

This means that the chances are 95 out of 100 that the actual number of first births to American Indian women 40-44 years of age would lie between 35 and 63.

95-percent confidence limits for numbers of 100 or more

When the number of events is greater than 100, the data are assumed to approximate a normal distribution. Formulas for 95-percent confidence limits are:

Lower limit =
$$B - (1.96 \times \sqrt{B})$$

Upper limit = $B + (1.96 \times \sqrt{B})$

where

B = number of births

Example

Suppose that the number of first births to white women 40-44 years of age was 14,108. The 95-percent confidence limits for this number would be:

Lower limit = 14,108 - (1.96 x
$$\sqrt{14,108}$$
)
= 14,108 - 233
= 13,875
Upper limit = 14,108 + (1.96 x $\sqrt{14,108}$)
= 14,108 + 233

= 14.341

This means that the chances are 95 out of 100 that the actual number of first births to white women 40–44 years of age would lie between 13,875 and 14,341.

Computing confidence intervals for rates

The same statistical assumptions can be used to estimate the variability in birth rates. Again, one formula is used for rates based on numbers of events less than 100, and another formula for rates based on numbers of 100 or greater. For our purposes, assume that the denominators of these rates (the population estimates) have no error. While this assumption is technically correct *only* for denominators based on the census that occurs every 10 years, the error in intercensal population estimates is usually small, difficult to measure,

Table IV. Values of L and U for calculating 95-percent confidence limits for numbers of events and rates when the number of events is less than 100

N	L	U	N	L	U
1	0.02532	5.57164	51	0.74457	1.31482
	0.12110	3.61234	52	0.74685	1.31137
	0.20622	2.92242	53	0.74907	1.30802
	0.27247	2.56040	54	0.75123	1.30478
	0.32470	2.33367	55	0.75334	1.30164
	0.36698	2.17658	56	0.75539	1.29858
	0.40205	2.06038	57	0.75739	1.29562
	0.43173	1.97040	58	0.75934	1.29273
	0.45773	1.89831	59	0.76125	1,28993
	0.47954	1.83904			
• • • • • • • • • • • • • • • • • • • •			60	0.76311	1.28720
	0.49920	1.78928	61	0.76492	1.28454
	0.51671	1.74680	62	0.76669	1.28195
	0.53246	1.71003	63	0.76843	1.27943
	0.54671	1.67783	64	0.77012	1.27698
	0.55969	1.64935	65	0.77178	1.27458
	0.57159	1.62394	66	0.77340	1.27225
	0.58254	1.60110	67	0.77499	1.26996
	0.59266	1.58043	68	0.77654	1.26774
	0.60207	1.56162	69	0.77806	1.26556
	0.61083	1.54442	70	0.77955	1.26344
	0.61902	1.52861	71	0.78101	1.26136
	0.62669	1.51401	72	0.78244	1.25933
	0.63391	1.50049	73	0.78384	1.25735
	0.64072	1.48792	74	0.78522	1.25541
	0.64715	1.47620	75	0.78656	1.25351
	0.65323	1.46523	76	0.78789	1.25165
	0.65901	1.45495	77	0.78918	1.24983
	0.66449	1.44528	78	0.79046	1.24805
	0.66972	1.43617	79	0.79171	1.24630
	0.67470	1.42756	80	0.79294	1.24459
	0.67945	1.41942	81	0.79414	1.24291
	0.68400	1.41170	82	0.79533	1.24126
	0.68835	1.40437	83	0.79649	1.23965
	0.69253	1.39740	84	0.79764	1.23807
	0.69654	1.39076	85	0.79876	1.23652
	0.70039	1.38442	86	0.79987	1.23499
	0.70409	1.37837	87	0.80096	1.23350
	0.70766	1.37258	88	0.80203	1,23203
	0.71110	1.36703	89	0.80308	1.23059
	0.71441	1.36172	90	0.80412	1.22917
	0.71762	1.35661	91	0.80514	1.22778
	0.72071	1.35171	92	0.80614	1.22641
	0.72370	1.34699	93	0.80713	1.22507
	0.72660	1.34245	94	0.80810	1.22375
		1,33808			
	0.72941		95	0.80906	1.22245
	0.73213	1.33386	96	0.81000	1.22117
• • • • • • • • • • • • • • • • • • • •	0.73476	1.32979	97	0.81093	1.21992
	0.73732	1.32585	98	0.81185	1.21868
	0.73981	1.32205	99	0.81275	1.21746
	0.74222	1.31838			

and therefore not considered. (See however, discussion of "population denominators" earlier in the Technical Notes.)

95-percent confidence limits for rates based on fewer than 100 events

When the number of events in the numerator is less than 20, an asterisk is shown in place of the rate because there were too few births to compute a statistically reliable rate. When the number of events in the numerator is greater than 20 but less than 100, the confidence interval for a rate can be estimated using the two formulas that follow and the values in table IV.

Lower limit = $R \times L$

Upper limit = $R \times U$

where

R = birth rate

L = value in table IV that corresponds to the number of events B U = value in table IV that corresponds to the number of events B

Example

Suppose that the first birth rate for American Indian women 40–44 years of age was 0.50 per thousand, based on 47 births in the numerator. Using table IV:



100

Lower limit =
$$0.50 \times 0.73476 = 0.37$$

Upper limit = $0.50 \times 1.32979 = 0.66$

This means that the chances are 95 out of 100 that the actual first birth rate for American Indian women 40–44 years of age lies between 0.37 and 0.66.

95-percent confidence limits for rates when the numerator is 100 or more

In this case, use the following formula for the birth rate R based on the number of births B:

Lower limit =
$$R - [1.96 \ x (R/\sqrt{B})]$$

Upper limit = $R + [1.96 \ x (R/\sqrt{B})]$

where

R = the birth rate B = the number of births

Example

Suppose that the first birth rate for white women 40–44 years of age was 1.55 per thousand, based on 14,108 births in the numerator. Therefore, the 95-percent confidence interval would be:

Lower limit =
$$1.55 - [1.96 \times (1.55 / \sqrt{14,108})]$$

= $1.55 - 0.026$
= 1.52
Upper limit = $1.55 + [1.96 \times (1.55 / \sqrt{14,108})]$
= $1.55 + 0.026$
= 1.58

This means that the chances are 95 out of 100 that the actual first birth rate for white women 40–44 years of age lies between 1.52 and 1.58

Computing 95-percent confidence intervals for percents

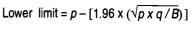
In many instances we need to compute the confidence intervals for percents. Percents derive from a binomial distribution. As with birth rates, an asterisk will be shown for any percent which is based on fewer than 20 births in the numerator. We easily compute a 95-percent confidence interval for a percent when the following conditions are met:

$$B \times p \ge 5$$
 and $B \times q \ge 5$

where

B = number of births in the denominator p = percent divided by 100 q = 1 - p

For natality data, these conditions will be met except for very rare events in small subgroups. If the conditions are *not* met, the variation in the percent will be so large as to render the confidence intervals meaningless. When these conditions are met the 95-percent confidence interval can be computed using the normal approximation of the binomial. The 95-percent confidence intervals are computed by



Upper limit = $p + [1.96 \times (\sqrt{p \times q/B})]$

where

p = percent divided by 100q = 1 - p

B = number of births in the denominator

Example

Suppose that the percent of births to Hispanic women in Arizona that were to unmarried women was 49.7 percent. This was based on 14,751 births in the numerator and 29,682 births in the denominator. First we test to make sure we can use the normal approximation of the binomial:

Both 14,752 and 14,930 are greater than 5 so we can proceed. The 95-percent confidence interval would be:

Lower limit =
$$0.497 - [1.96 \times (\sqrt{0.497 \times 0.503 / 29,682})]$$

= $0.497 - 0.006$
= 0.491 or 49.1 percent

Upper limit =
$$0.497 + [1.96 \times (\sqrt{0.497 \times 0.503 / 29,682})]$$

= $0.497 + 0.006$
= 0.503 or 50.3 percent

This means that the chances are 95 out of 100 that the actual percent of births to unmarried Hispanic women in Arizona lies between 49.1 and 50.3 percent.

Significance testing

One or both of the rates is based on fewer than 100 cases

To compare two rates, when one or both of those rates are based on less than 100 cases, you first compute the confidence intervals for both rates. Then you check to see if those intervals overlap. If they **do** overlap, the difference is not statistically significant at the 95-percent level. If they **do not** overlap, the difference is indeed statistically significant.

Example

Suppose that the first birth rate for American Indian women 40–44 years of age was 0.70 per 1,000 in year X and 0.50 in year Y. Is the rate for year X significantly higher than the rate for year Y? The two rates are based on 63 events in year X and 47 events in year Y. Both rates are based on fewer than 100 events; therefore, the first step is to compute the confidence intervals for both rates.

	Lower Limit	Upper Limit
Year X	0.54	0.90
Year Y	0.37	0.66

These two confidence intervals overlap. Therefore, the first birth rate for American Indian women 40–44 in year X is not significantly higher (at the 95-percent confidence level) than the rate in year Y.

Both rates are based on 100 or more events

When both rates are based on 100 or more events, the difference between the two rates, irrespective of sign (+/-), is considered statistically significant if it exceeds the statistic in the formula below. This statistic equals 1.96 times the standard error for the difference between two rates.

$$1.96\sqrt{\frac{R_1^2}{N_1} + \frac{R_2^2}{N_2}}$$

where

 R_1 = first rate

 R_2 = second rate

 N_1 = first number of births

 N_2 = second number of births

If the difference is **greater** than this statistic, then the difference would occur by chance less than 5 times out of 100. If the difference is **less than or equal** to this statistic, the difference might occur by chance more than 5 times out of 100. We say that the difference is not statistically significant at the 95-percent confidence level.

Example

Is the first birth rate for black women 40–44 years of age (1.08 per 1,000) significantly lower than the comparable rate for white women (1.55)? Both rates are based on more than 100 births (1,535 for black women and 14,108 for white women). The difference between the rates is 1.55 – 1.08 = .47. The statistic is then calculated as follows:

$$1.96\sqrt{\frac{1.08^2}{1,535} + \frac{1.55^2}{14,108}}$$

= $1.96 \times \sqrt{([1.166/1,535] + [2.403/14,108])}$

 $= 1.96 \times \sqrt{0.00076 + 0.00017}$

 $= 1.96 \times \sqrt{0.00093}$

 $= 1.96 \times 0.03$

= 0.06

The difference between the rates (.47) is greater than this statistic (.06). Therefore, the difference is statistically significant at the 95-percent confidence level.

Testing differences between two percents

When testing the difference between two percents, both percents must meet the following conditions:

 $B \times p \ge 5$ and $B \times q \ge 5$

where

B = number of births in the denominator

p = percent divided by 100

q = 1 - p

When both percents meet these conditions then the difference een the two percents is considered statistically significant if it is

greater than the statistic in the formula below. This statistic equals 1.96 times the standard error for the difference between two percents.

1.96
$$\sqrt{p(1-p)(\frac{1}{B_1}+\frac{1}{B_2})}$$

where

 B_1 = number of births in the denominator for the first percent B_2 = number of births in the denominator for the second percent

$$\rho = \frac{B_1 \ \rho_1 + B_2 \ \rho_2}{B_1 + B_2}$$

 p_1 = the first percent

 p_2 = the second percent

Example

Is the percent of births to Hispanic women that were to unmarried women higher in New Mexico (50.2) than in Arizona (49.7)? Suppose that the number in the denominator was 13,714 in New Mexico and 29,682 in Arizona. The necessary conditions are met for both percents (calculations not shown). The difference between the two percents is .502- .497 = .005. The statistic is then calculated as follows:

$$1.96 \sqrt{0.499(0.501) (0.000106609)} = 1.96 \times \sqrt{0.000026652}$$

= 1.96 \times 0.005162563
= 0.010

The difference between the percents (0.005) is less than this statistic (0.010). Therefore, the difference is not statistically significant at the 95-percent confidence level.

Information on computing confidence intervals for and testing differences between rates for Hispanic subgroups is available elsewhere (4).

Definitions of medical terms

The 1989 revision of the U.S. Standard Certificate of Live Birth includes several maternal and infant health items in checkbox format, including obstetric procedures, medical risk factors, complications of labor and delivery, abnormal conditions of the newborn, and congenital anomalies of the child (**figure I**). The definitions which follow are adapted and abbreviated from a set of definitions compiled by a committee of Federal and State health statistics officials for the National Association of Public Health Statistics and Information Systems, formerly known as the Association for Vital Records and Health Statistics (141).

Medical risk factors for this pregnancy

Anemia—Hemoglobin level of less than 10.0 g/dL during pregnancy or a hematocrit of less than 30 percent during pregnancy.

Cardiac disease—Disease of the heart.

Acute or chronic lung disease—Disease of the lungs during pregnancy.

Diabetes—Metabolic disorder characterized by excessive discharge of urine and persistent thirst; includes juvenile onset, adult onset, and gestational diabetes during pregnancy.

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Genital herpes—Infection of the skin of the genital area by herpes simplex virus.

Hydramnios/oligohydramnios—Any noticeable excess (hydramnios) or lack (oligohydramnios) of amniotic fluid.

Hemoglobinopathy—A blood disorder caused by alteration in the genetically determined molecular structure of hemoglobin (example: sickle cell anemia).

Hypertension, chronic—Blood pressure persistently greater than 140/90 diagnosed prior to onset of pregnancy or before the 20th week of gestation.

Hypertension, pregnancy-associated—An increase in blood pressure of at least 30 mm Hg systolic or 15 mm Hg diastolic on two measurements taken 6 hours apart after the 20th week of gestation.

Eclampsia—The occurrence of convulsions and/or coma unrelated to other cerebral conditions in women with signs and symptoms of preeclampsia.

Incompetent cervix—Characterized by painless dilation of the cervix in the second trimester or early in the third trimester of pregnancy, with premature expulsion of membranes through the cervix and ballooning of the membranes into the vagina, followed by rupture of the membranes and subsequent expulsion of the fetus.

Previous infant 4,000+ grams—The birthweight of a previous live-born child was over 4,000+ grams (8 pounds 14 ounces).

Previous preterm or small-for-gestational-age infant—Previous birth of an infant prior to term (before 37 completed weeks of gestation) or of an infant weighing less than the 10th percentile for gestational age using a standard weight-for-age chart.

Renal disease—Kidney disease.

Rh sensitization—The process or state of becoming sensitized to the Rh factor as when an Rh-negative woman is pregnant with an Rh-positive fetus.

Uterine bleeding—Any clinically significant bleeding during the pregnancy taking into consideration the stage of pregnancy; any second or third trimester bleeding of the uterus prior to the onset of labor.

Obstetric procedures

Amniocentesis—Surgical transabdominal perforation of the uterus to obtain amniotic fluid to be used in the detection of genetic disorders, fetal abnormalities, and fetal lung maturity.

Electronic fetal monitoring—Monitoring with external devices applied to the maternal abdomen or with internal devices with an electrode attached to the fetal scalp and a catheter through the cervix into the uterus, to detect and record fetal heart tones and uterine contractions.

Induction of labor—The initiation of uterine contractions before the spontaneous onset of labor by medical and/or surgical means for the purpose of delivery.

Stimulation of labor—Augmentation of previously established labor by use of oxytocin.

Tocolysis—Use of medications to inhibit preterm uterine contractions to extend the length of pregnancy and, therefore, avoid a preterm birth.

Ultrasound—Visualization of the fetus and the placenta by means of sound waves.

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Complications of labor and/or delivery

Febrile—A fever greater than 100 degrees F. or 38 C. occurring during labor and/or delivery.

Meconium, moderate/heavy—Meconium consists of undigested debris from swallowed amniotic fluid, various products of secretion, excretion, and shedding by the gastrointestinal tract; moderate to heavy amounts of meconium in the amniotic fluid noted during labor and/or delivery.

Premature rupture of membranes (more than 12 hours)—Rupture of the membranes at any time during pregnancy and more than 12 hours before the onset of labor.

Abruptio placenta—Premature separation of a normally implanted placenta from the uterus.

Placenta previa—Implantation of the placenta over or near the internal opening of the cervix.

Other excessive bleeding—The loss of a significant amount of blood from conditions other than abruptio placenta or placenta previa.

Seizures during labor—Maternal seizures occurring during labor from any cause.

Precipitous labor (less than 3 hours)—Extremely rapid labor and delivery lasting less than 3 hours.

Prolonged labor (more than 20 hours)—Abnormally slow progress of labor lasting more than 20 hours.

Dysfunctional labor—Failure to progress in a normal pattern of labor.

Breech/malpresentation—At birth, the presentation of the fetal buttocks rather than the head, or other malpresentation.

Cephalopelvic disproportion—The relationship of the size, presentation, and position of the fetal head to the maternal pelvis which prevents dilation of the cervix and/or descent of the fetal head.

Cord prolapse—Premature expulsion of the umbilical cord in labor before the fetus is delivered.

Anesthetic complications—Any complication during labor and/or delivery brought on by an anesthetic agent or agents.

Fetal distress—Signs indicating fetal hypoxia (deficiency in amount of oxygen reaching fetal tissues).

Abnormal conditions of the newborn

Anemia—Hemoglobin level of less than 13.0 g/dL or a hematocrit of less than 39 percent.

Birth injury—Impairment of the infant's body function or structure due to adverse influences which occurred at birth.

Fetal alcohol syndrome—A syndrome of altered prenatal growth and development occurring in infants born of women who consumed excessive amounts of alcohol during pregnancy.

Hyaline membrane disease/RDS—A disorder primarily of prematurity, manifested clinically by respiratory distress and pathologically by pulmonary hyaline membranes and incomplete expansion of the lungs at birth.

Meconium aspiration syndrome—Aspiration of meconium by the fetus or newborn affecting the lower respiratory system.

Assisted ventilation (less than 30 minutes)—A mechanical method of assisting respiration for newborns with respiratory failure.

Assisted ventilation (30 minutes or more)—Newborn placed on assisted ventilation for 30 minutes or longer.

Seizures—A seizure of any etiology.

Congenital anomalies of child

Anencephalus-Absence of the cerebral hemispheres.

Spina bifida/meningocele—Developmental anomaly characterized by defective closure of the bony encasement of the spinal cord, through which the cord and meninges may or may not protrude.

Hydrocephalus—Excessive accumulation of cerebrospinal fluid within the ventricles of the brain with consequent enlargement of the cranium.

Microcephalus—A significantly small head.

Other central nervous system anomalies—Other specified anomalies of the brain, spinal cord, and nervous system.

Heart malformations—Congenital anomalies of the heart.

Other circulatory/respiratory anomalies—Other specified anomalies of the circulatory and respiratory systems.

Rectal atresia/stenosis—Congenital absence, closure, or narrowing of the rectum.

Tracheo-esophageal fistula/Esophageal atresia—An abnormal passage between the trachea and the esophagus; esophageal atresia is the congenital absence or closure of the esophagus.

Omphalocele/Gastroschisis—An omphalocele is a protrusion of variable amounts of abdominal viscera from a midline defect at the base of the umbilicus. In gastroschisis, the abdominal viscera protrude through an abdominal wall defect, usually on the right side of the umbilical cord insertion.

Other gastrointestinal anomalies—Other specified congenital anomalies of the gastrointestinal system.

Malformed genitalia—Congenital anomalies of the reproductive organs.

Renal agenesis-One or both kidneys are completely absent.

Other urogenital anomalies—Other specified congenital anomalies of the organs concerned in the production and excretion of urine, together with organs of reproduction.

Cleft lip/palate—Cleft lip is a fissure or elongated opening of the lip; cleft palate is a fissure in the roof of the mouth. These are failures of embryonic development.

Polydactyly/syndactyly/adactyly—Polydactyly is the presence of more than five digits on either hands and/or feet; syndactyly is having fused or webbed fingers and/or toes; adactyly is the absence of fingers and/or toes.

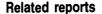
Club foot—Deformities of the foot, which is twisted out of shape or position.

Diaphragmatic hernia—Herniation of the abdominal contents through the diaphragm into the thoracic cavity usually resulting in respiratory distress.

Other musculoskeletal/integumental anomalies—Other specified congenital anomalies of the muscles, skeleton, or skin.

Down's syndrome—The most common chromosomal defect with most cases resulting from an extra chromosome (trisomy 21).

Other chromosomal anomalies—All other chromosomal aberrations.



Many of the topics discussed in this report are covered in more analytic detail in other reports published by NCHS. Topics of reports published in the past 5 years include Hispanic origin births (133); twin births (121); trends in teenage births (9, 142); cesarean deliveries (91), attendant at birth, place of delivery, and obstetric procedures (79, 81); births to unmarried mothers (31); trends in pregnancies and pregnancy rates (10,11), and trends in smoking (48).



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